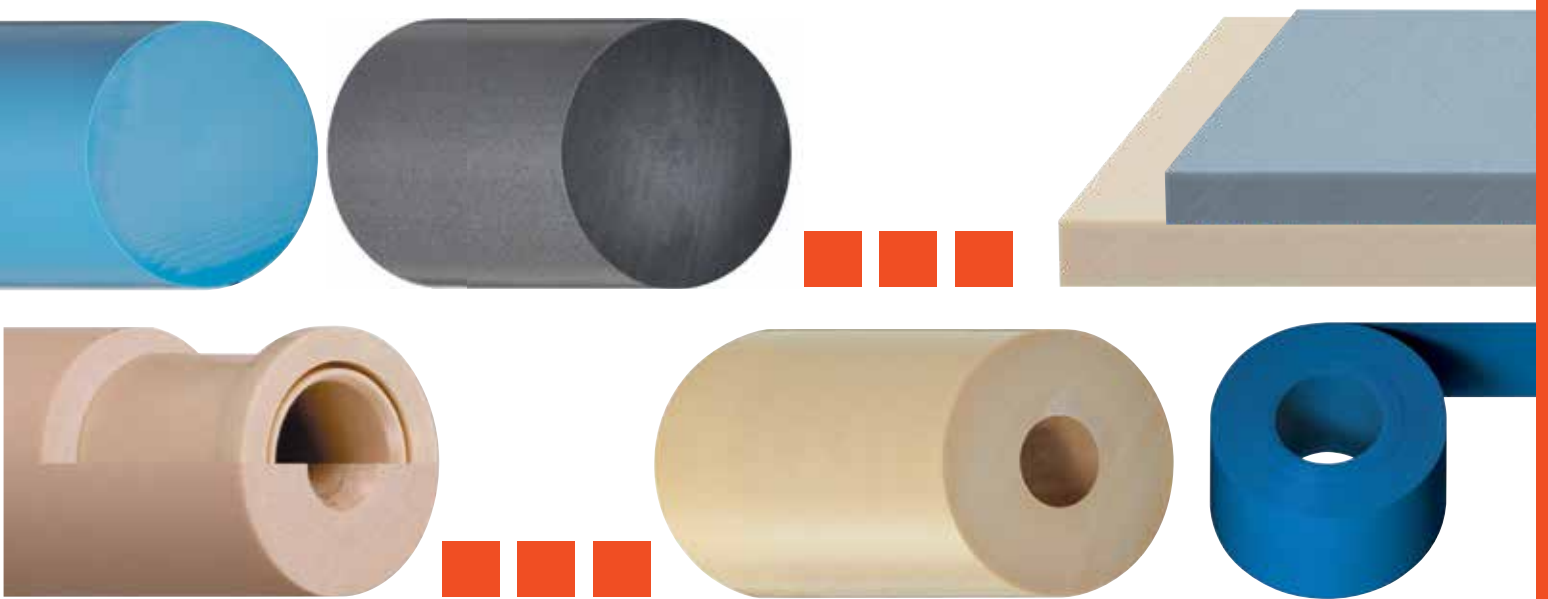


# iglide®

Round bars, tubes  
plates and liners



# ...plastics

# iglide® bar stock - Product overview

## iglide® round bars - all-rounder



iglide® M250:  
Excellent vibration  
dampening

► Page 768



iglide® P210: Good  
coefficient of friction and  
wear on almost every shaft

► Page 768



iglide® J4:  
Cost-effective and  
wear-resistant

► Page 769



iglide® GLW:  
Low-cost material for  
high volumes

► Page 769

## Endurance runner



iglide® J260:  
Ideal for plastic shafts

► Page 772



iglide® R:  
Low-cost material

► Page 772



iglide® J200:  
Specially for aluminum  
shafts

► Page 773



iglide® JB:  
Extremely wear-resistant  
in black

► Page 773

## Contact with food



iglide® A181:  
All-rounder for food, FDA  
and EU 10/2011-compliant

► Page 776



iglide® A350: The FDA-  
compliant endurance runner  
at high temperatures

► Page 776



iglide® A500: The media and  
temperature specialist with  
FDA compliance

► Page 777



iglide® A180:  
The all-rounder with FDA  
compliance

► Page 777

## Special application areas



iglide® F2:  
Used to prevent  
electro-static charges

► Page 779



iglide® J2:  
Versatile and  
cost-effective

► Page 780



iglide® RW370: For the rail  
industry, complies with  
DIN EN 45545 HL3, R22/R23

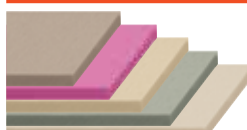
► Page 780



iglide® Q2: For long service  
life under extreme loads

► Page 781

## iglide® plates



iglide® A500/C500/J350/J4/  
W300/X/HSD350/RW370/  
A350: 6-50mm thickness

► Page 783



iglide® J and JB  
(in black)  
from 2 to 40mm

► Page 784



iglide® A350/A160/A180:  
For applications with food  
contact; 10-30mm

► From page 785



iglide® RW370:  
Flame-retardant

► Page 786

## iglide® plate strips

## Endurance runner



**iglide® J:**  
The versatile endurance runner

► Page 770



**iglide® W300:**  
The classic endurance runner up to 4,351 psi

► Page 770



**iglide® J3:**  
Specialist for pivoting and intermittent loads

► Page 771



**iglide® J350:** Endurance runner with high dimensional stability at high temperature

► Page 771

## High temperatures



**iglide® X:**  
The chemical and temperature specialist

► Page 774



**iglide® HSD350:**  
All-rounder for steam sterilization

► Page 774



**iglide® H1:**  
Endurance runner with high media resistance

► Page 775



**iglide® C500:**  
For extreme ambient conditions

► Page 775

## Media resistance



**iglide® A160:** "Food" material with high media resistance up to +194 °F

► Page 778



**iglide® UW160:**  
For contact with drinking water

► Page 778



**iglide® T220:**  
For the tobacco industry

► Page 779

## iglide® tubes



**iglide® J:**  
The versatile endurance runner

► Page 782



**speedicut:**  
Special parts fast, machined to drawing

► Page 788

## iglide® tribo-tape



**iglide® A160:**  
FDA-compliant

► Page 794



**iglide® B160:**  
For use in visible areas

► Page 795



**iglide® W160:**  
Tribo-tape in white – highly wear resistant

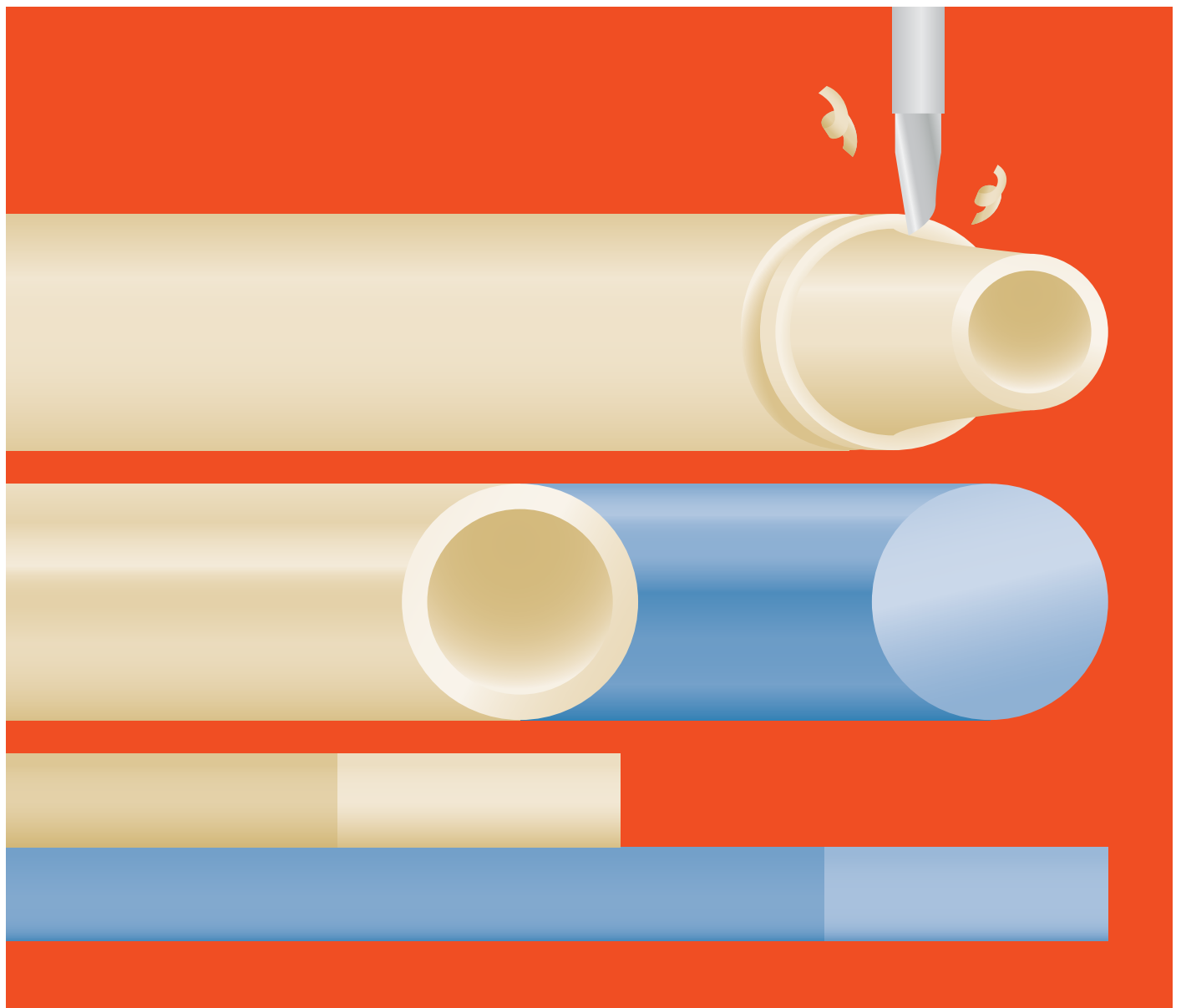
► Page 796



**iglide® V400:**  
Extremely high wear resistance

► Page 797





## iglide® bar stock

iglide® materials as round bars, tubes and plates

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Fast and cost-effective

---

Cut to required size

---

Machining with no minimum order quantity

---

Maintenance-free and predictable

---

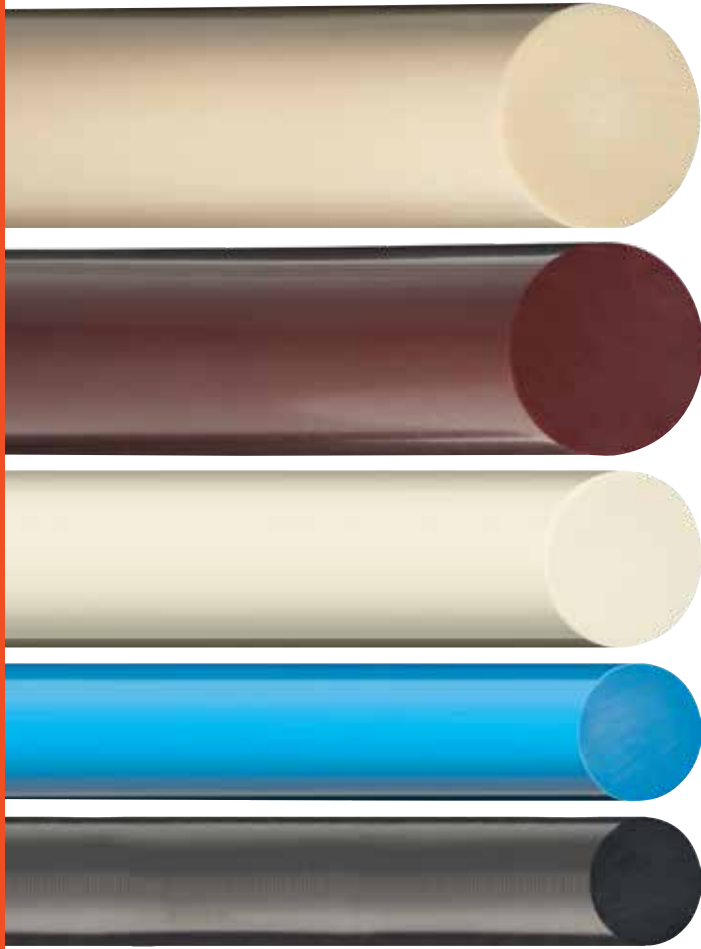
Standard range from stock

---



# iglide® bar stock | Advantages

Round bars and plates for free design



## Bar stock made from technical plastic: iglide® in one piece

iglide® for free design – as plastic bar stock to make your own or as machine-finished special components – for prototypes, test components and small quantity needs.

- iglide® plastic bar stock from stock or ready-machined components and special sizes in 5 to 7 days
- Self-lubricating and maintenance-free
- Easy to machine – with machining guidelines available
- Tribologically optimized iglide® materials as round bars, tubes and plates
- Service life can now also be calculated for machined plain bearings made from iglide® plastic bar stock
- No minimum order value
- No minimum order quantity



### Available from stock

Detailed information about delivery time online. Further materials and dimensions upon request.



### Operation temperatures:

–58 °F up to +194 °F (standard iglide® J)  
–148 °F up to +482 °F (depending on material)



### 30 materials

Round bars: Ø 10–100mm  
Plate thickness: ↓ 2–40mm  
Tubes: up to 150mm outer Ø



igus® constantly expands its range of available materials and dimensions. Check the current stock online ► [www.igus.com/barstock](http://www.igus.com/barstock)



In addition to bar stock, we will also gladly offer you mechanical processing in line with a drawing.



### Service life calculation

► [www.igus.com/barstock-expert](http://www.igus.com/barstock-expert)

# iglide® bar stock | Product overview

## Round bars and plates for free design



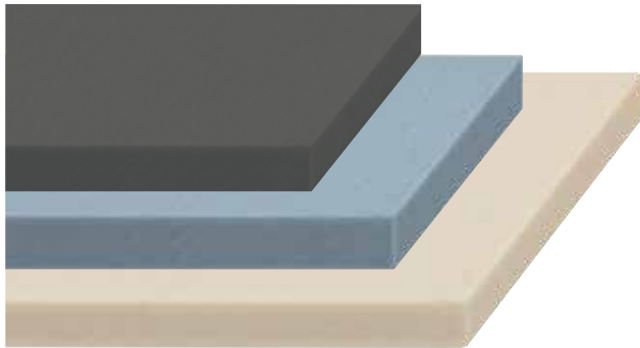
### iglide® round bars

- Currently 30 iglide® materials to choose from
  - Outer diameter 10–100mm
  - Excellent wear rates and coefficient of friction
  - For special dimensions in small quantities
- From page 768



### iglide® tubes

- Large outer diameters 110–150mm
  - Low wear against different shaft materials
- From page 782



### iglide® plates

- Versatile application options
  - Plate thickness 2–40mm
- From page 783



### speedicut: Machined parts and cutting

- Special parts according to customer request
  - Prototypes available in a matter of days
- From page 788

## Turned or milled component made from bar stock

igus® manufactures your custom components, prototypes and small batch series of iglide® high-performance polymer bar stock in three easy steps:

1. Submit an inquiry and upload, for example, a CAD file of the component. After our specialists contacted you for a consultation, you will receive a quotation.
2. We manufacture your custom component.
3. Your required component is ready to ship and delivered quickly.

Submit an inquiry:

- [www.igus.com/specialbearings-enquiry](http://www.igus.com/specialbearings-enquiry)

# iglide® bar stock | Technical properties - quick selection












iglide®	M250	P210	J4	GLW	J	W300	J3	J350	J260	R	J200	JB	X	HSD350
<b>Descriptive technical specifications</b>														
Wear resistance at +73 °F														
Wear resistance at +194 °F														
Wear resistance at +302 °F														
Low coefficient of friction														
Low moisture absorption														
Wear resistance under water														
High media resistance														
Resistant to edge loads														
Suitable for shock and impact loads														
Resistant to dirt														
Price index <sup>141)</sup>														
For high loads (>8,702 psi)				●				●					●	
Corrosion-free	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Electrically conductive													●	
<b>Approvals and standards</b>														
RoHS-II 2011/65/EU	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FDA-compliant														
EU 10/2011-compliant														
Fire class in accordance with UL-94														
<b>Availability / variations</b>														
Bar stock, round bar	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Bar stock, tube					●									
Bar stock, plate					●							●		
Machined parts made from bar stock	●	●	●	●	●	●	●	●	●	●	●	●	●	●
tribo-tape liner														

<sup>141)</sup> Price index low price category medium price category Highest price category





# iglide® bar stock | Material properties

iglide®	Unit	M250	P210	J4	GLW	J	W300	J3	J350	J260	R	J200
<b>General properties</b>												
Density	[g/cm³]	1.14	1.40	1.48	1.36	1.49	1.24	1.42	1.44	1.35	1.39	1.72
Color												
Max. moisture absorption at +73°F/50% r. h.	[% weight]	1.4	0.3	0.3	1.3	0.3	1.3	0.3	0.3	0.2	0.2	0.2
Max. total moisture absorption	[% weight]	7.6	0.5	1.3	5.5	1.3	6.5	1.3	1.6	0.4	1.1	0.7
Coefficient of sliding friction, dynamic, against steel	[μ]	0.18 – 0.40	0.07 – 0.19	0.06 – 0.20	0.10 – 0.24	0.06 – 0.18	0.08 – 0.23	0.06 – 0.20	0.10 – 0.20	0.06 – 0.20	0.09 – 0.25	0.11 – 0.17
pv value, max. (dry)	[psi x fpm]	3,400	11,500	8,570	8,600	9,700	6,600	14,000	13,000	10,000	8,700	8,600
<b>Mechanical properties</b>												
Flexural modulus	[psi]	391,602	362,594	340,839	1,116,791	348,091	507,632	391,602	290,075	319,083	282,824	406,106
Flexural strength at +68°F	[psi]	16,244	10,152	10,152	34,084	10,588	18,130	10,152	7,977	8,702	10,152	8,412
Compressive strength	[psi]	7,542	7,252	7,977	10,733	8,702	8,847	8,702	8,702	7,252	9,862	6,237
Max. permissible surface pressure at +68°F	[psi]	2,900	7,252	5,076	11,603	5,076	8,702	6,527	8,702	5,801	3,336	3,336
Shore D hardness		79	75	74	78	74	77	73	80	77	77	70
<b>Physical and thermal properties</b>												
Max. continuous operating temperature	[°F]	+176	+212	+194	+212	+194	+194	+194	+356	+248	+194	+194
Max. short-term application temperature	[°F]	+338	+320	+248	+320	+248	+356	+248	+428	+284	+230	+248
Min. application temperature	[°F]	-40	-40	-58	-40	-58	-40	-58	-148	-148	-58	-58
Thermal conductivity	[W/m · K]	0.24	0.25	0.25	0.24	0.25	0.24	0.25	0.24	0.24	0.25	0.24
Coefficient of thermal expansion at +73°F	[K <sup>-1</sup> · 10 <sup>-6</sup> ]	10	8	10	17	10	9	13	7	13	11	8
<b>Electrical properties</b>												
Specific contact resistance	[Ωcm]	> 10 <sup>13</sup>	> 10 <sup>12</sup>	> 10 <sup>13</sup>	> 10 <sup>11</sup>	> 10 <sup>13</sup>	> 10 <sup>13</sup>	> 10 <sup>12</sup>	> 10 <sup>13</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>8</sup>
Surface resistance	[Ω]	> 10 <sup>11</sup>	> 10 <sup>11</sup>	> 10 <sup>13</sup>	> 10 <sup>11</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>10</sup>	> 10 <sup>10</sup>	> 10 <sup>12</sup>	> 10 <sup>8</sup>
<b>Page</b>		<b>768</b>	<b>768</b>	<b>769</b>	<b>769</b>	<b>770</b>	<b>770</b>	<b>771</b>	<b>771</b>	<b>772</b>	<b>772</b>	<b>773</b>

JB	X	HSD350	H1	C500	A181	A350	A500	A180	A160	UW160	T220	F2	J2	RW370	Q2
1.49	1.44	1.39	1.53	1.37	1.38	1.42	1.28	1.46	1.00	1.04	1.28	1.52	1.44	1.34	1.46
0.3	0.1	0.6	0.1	0.3	0.2	0.6	0.3	0.2	0.1	0.1	0.3	0.2	0.2	0.25	1.1
1.3	0.5	1.2	0.3	0.5	1.3	1.9	0.5	1.3	0.1	0.1	0.5	0.4	1.3	1.2	1.1
0.06 – 0.18	0.09 – 0.27	0.07 – 0.23	0.06 – 0.20	0.07 – 0.19	0.10 – 0.21	0.10 – 0.20	0.26 – 0.41	0.05 – 0.23	0.09 – 0.19	0.17 – 0.31	0.20 – 0.32	0.16 – 0.22	0.11 – 0.27	0.13 – 0.17	0.22 – 0.42
9,710	24,000	8,570	22,800	20,000	8,750	11,500	8,000	8,750	7,800	6,250	8,000	8,750	6,600	34,300	19,500
348,091	1,174,806	311,831	406,106	435,113	277,457	290,075	522,136	333,586	166,938	195,656	261,068	1,075,890	522,861	434,678	1,213,966
10,588	24,656	9,718	7,977	14,504	6,962	15,954	20,305	12,763	2,756	3,191	9,427	13,488	14,649	14,504	34,809
8,702	14,504	6,382	11,313	15,954	8,702	11,313	17,115	11,313	5,366	4,641	7,977	8,847	11,168	18,710	18,855
5,076	21,756	4,351	11,603	15,954	4,496	8,702	17,405	4,061	2,176	2,176	5,801	6,817	6,672	10,878	17,405
74	85	77	77	81	76	76	83	76	60	60	76	72	n.s.	80	80
+194	+482	+356	+392	+482	+194	+356	+482	+194	+194	+194	+212	+248	+90	+170	+266
+248	+599	+410	+464	+572	+230	+410	+572	+230	+212	+212	+320	+329	+110	+190	+392
-58	-148	-40	-40	-148	-58	-148	-148	-58	-58	-58	-40	-40	-58	-58	-40
0.25	0.60	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.30	0.50	0.24	0.61	0.25	n.s.	0.24
10	5	7	6	9	11	8	9	11	11	18	11	5	7	n.s.	8
> 10 <sup>13</sup>	< 10 <sup>5</sup>	> 10 <sup>13</sup>	> 10 <sup>12</sup>	> 10 <sup>14</sup>	> 10 <sup>12</sup>	> 10 <sup>11</sup>	> 10 <sup>14</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>10</sup>	< 10 <sup>9</sup>	> 10 <sup>13</sup>	> 10 <sup>12</sup>	> 10 <sup>13</sup>
> 10 <sup>12</sup>	< 10 <sup>3</sup>	> 10 <sup>14</sup>	> 10 <sup>11</sup>	> 10 <sup>13</sup>	> 10 <sup>12</sup>	> 10 <sup>11</sup>	> 10 <sup>13</sup>	> 10 <sup>11</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>10</sup>	< 10 <sup>9</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>11</sup>
773	774	774	775	775	776	776	777	777	778	778	779	779	780	780	781

## Excellent vibration dampening – iglide® M250



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRM250-1000-□ <sup>16)</sup>	10	100–1,000
SFRM250-1500-□ <sup>16)</sup>	15	100–1,000
SFRM250-2000-□ <sup>16)</sup>	20	100–1,000
SFRM250-2500-□ <sup>16)</sup>	25	100–1,000
SFRM250-3000-□ <sup>16)</sup>	30	100–1,000
SFRM250-3500-□ <sup>16)</sup>	35	100–1,000
SFRM250-4000-□ <sup>16)</sup>	40	100–1,000
SFRM250-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
------	-----------------

SF R M250-30 00- □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
-----------	-----------	------------------	---------	---------	--------

Part No.	Ø	Lengths <sup>16)</sup>
SFRM250-5000-□ <sup>16)</sup>	50	100–1,000
SFRM250-5500-□ <sup>16)</sup>	55	100–1,000
SFRM250-6000-□ <sup>16)</sup>	60	100–1,000
SFRM250-6500-□ <sup>16)</sup>	65	100–1,000
SFRM250-7000-□ <sup>16)</sup>	70	100–1,000
SFRM250-8000-□ <sup>16)</sup>	80	100–1,000
SFRM250-9000-□ <sup>16)</sup>	90	100–1,000
SFRM250-10000-□ <sup>16)</sup>	100	100–1,000

## Good coefficient of friction and wear on almost every shaft – iglide® P210



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRP210-1000-□ <sup>16)</sup>	10	100–1,000
SFRP210-1500-□ <sup>16)</sup>	15	100–1,000
SFRP210-2000-□ <sup>16)</sup>	20	100–1,000
SFRP210-2500-□ <sup>16)</sup>	25	100–1,000
SFRP210-3000-□ <sup>16)</sup>	30	100–1,000
SFRP210-3500-□ <sup>16)</sup>	35	100–1,000
SFRP210-4000-□ <sup>16)</sup>	40	100–1,000
SFRP210-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

Available from stock

Upon request/check availability



Order key for round bars

Type	Dimensions [mm]
------	-----------------

SF R P210-30 00- □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
-----------	-----------	------------------	---------	---------	--------

Part No.	Ø	Lengths <sup>16)</sup>
SFRP210-5000-□ <sup>16)</sup>	50	100–1,000
SFRP210-5500-□ <sup>16)</sup>	55	100–1,000
SFRP210-6000-□ <sup>16)</sup>	60	100–1,000
SFRP210-6500-□ <sup>16)</sup>	65	100–1,000
SFRP210-7000-□ <sup>16)</sup>	70	100–1,000
SFRP210-8000-□ <sup>16)</sup>	80	100–1,000
SFRP210-9000-□ <sup>16)</sup>	90	100–1,000
SFRP210-10000-□ <sup>16)</sup>	100	100–1,000

## Cost-effective and wear-resistant – iglide® J4



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.



Order key for round bars

Type	Dimensions [mm]
SF R J4 - 30 00 - □	
Bar stock	Round bar
iglide® material	
Outer Ø	
Inner Ø	
Length	

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRJ4-1000-□ <sup>16)</sup>	10	100–1,000
SFRJ4-1500-□ <sup>16)</sup>	15	100–1,000
SFRJ4-2000-□ <sup>16)</sup>	20	100–1,000
SFRJ4-2500-□ <sup>16)</sup>	25	100–1,000
SFRJ4-3000-□ <sup>16)</sup>	30	100–1,000
SFRJ4-3500-□ <sup>16)</sup>	35	100–1,000
SFRJ4-4000-□ <sup>16)</sup>	40	100–1,000
SFRJ4-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

Part No.	Ø	Lengths <sup>16)</sup>
SFRJ4-5000-□ <sup>16)</sup>	50	100–1,000
SFRJ4-5500-□ <sup>16)</sup>	55	100–1,000
SFRJ4-6000-□ <sup>16)</sup>	60	100–1,000
SFRJ4-6500-□ <sup>16)</sup>	65	100–1,000
SFRJ4-7000-□ <sup>16)</sup>	70	100–1,000
SFRJ4-8000-□ <sup>16)</sup>	80	100–1,000
SFRJ4-9000-□ <sup>16)</sup>	90	100–1,000
SFRJ4-10000-□ <sup>16)</sup>	100	100–1,000

## Low-cost material for high volumes – iglide® GLW



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.



Order key for round bars


Type	Dimensions [mm]
SF R GLW - 30 00 - □	
Bar stock	Round bar
iglide® material	
Outer Ø	
Inner Ø	
Length	

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRGLW-1000-□ <sup>16)</sup>	10	100–1,000
SFRGLW-1500-□ <sup>16)</sup>	15	100–1,000
SFRGLW-2000-□ <sup>16)</sup>	20	100–1,000
SFRGLW-2500-□ <sup>16)</sup>	25	100–1,000
SFRGLW-3000-□ <sup>16)</sup>	30	100–1,000
SFRGLW-3500-□ <sup>16)</sup>	35	100–1,000
SFRGLW-4000-□ <sup>16)</sup>	40	100–1,000
SFRGLW-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

Part No.	Ø	Lengths <sup>16)</sup>
SFRGLW-5000-□ <sup>16)</sup>	50	100–1,000
SFRGLW-5500-□ <sup>16)</sup>	55	100–1,000
SFRGLW-6000-□ <sup>16)</sup>	60	100–1,000
SFRGLW-6500-□ <sup>16)</sup>	65	100–1,000
SFRGLW-7000-□ <sup>16)</sup>	70	100–1,000
SFRGLW-8000-□ <sup>16)</sup>	80	100–1,000
SFRGLW-9000-□ <sup>16)</sup>	90	100–1,000
SFRGLW-10000-□ <sup>16)</sup>	100	100–1,000

 iglus® constantly expands its range of available materials and dimensions. Please contact us in case the required diameter is not available.

## The versatile endurance runner – iglide® J



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRJ-1000-□ <sup>16)</sup>	10	100–1,000
SFRJ-1500-□ <sup>16)</sup>	15	100–1,000
SFRJ-2000-□ <sup>16)</sup>	20	100–1,000
SFRJ-2500-□ <sup>16)</sup>	25	100–1,000
SFRJ-3000-□ <sup>16)</sup>	30	100–1,000
SFRJ-3500-□ <sup>16)</sup>	35	100–1,000
SFRJ-4000-□ <sup>16)</sup>	40	100–1,000
SFRJ-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

## Order key for round bars

Type	Dimensions [mm]
SF R J - 30 00 - □	
Bar stock	
Round bar	
iglide® material	
Outer Ø	
Inner Ø	
Length	

Part No.	Ø	Lengths <sup>16)</sup>
SFRJ-5000-□ <sup>16)</sup>	50	100–1,000
SFRJ-5500-□ <sup>16)</sup>	55	100–1,000
SFRJ-6000-□ <sup>16)</sup>	60	100–1,000
SFRJ-6500-□ <sup>16)</sup>	65	100–1,000
SFRJ-7000-□ <sup>16)</sup>	70	100–1,000
SFRJ-8000-□ <sup>16)</sup>	80	100–1,000
SFRJ-9000-□ <sup>16)</sup>	90	100–1,000
SFRJ-10000-□ <sup>16)</sup>	100	100–1,000

## The classic endurance runner up to 4,351psi – iglide® W300



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRW-1000-□ <sup>16)</sup>	10	100–1,000
SFRW-1500-□ <sup>16)</sup>	15	100–1,000
SFRW-2000-□ <sup>16)</sup>	20	100–1,000
SFRW-2500-□ <sup>16)</sup>	25	100–1,000
SFRW-3000-□ <sup>16)</sup>	30	100–1,000
SFRW-3500-□ <sup>16)</sup>	35	100–1,000
SFRW-4000-□ <sup>16)</sup>	40	100–1,000
SFRW-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

## Order key for round bars

Type	Dimensions [mm]
SF R W - 30 00 - □	
Bar stock	
Round bar	
iglide® material	
Outer Ø	
Inner Ø	
Length	

Part No.	Ø	Lengths <sup>16)</sup>
SFRW-5000-□ <sup>16)</sup>	50	100–1,000
SFRW-5500-□ <sup>16)</sup>	55	100–1,000
SFRW-6000-□ <sup>16)</sup>	60	100–1,000
SFRW-6005-□ <sup>16)</sup>	65	100–1,000
SFRW-7000-□ <sup>16)</sup>	70	100–1,000
SFRW-8000-□ <sup>16)</sup>	80	100–1,000
SFRW-9000-□ <sup>16)</sup>	90	100–1,000
SFRW-10000-□ <sup>16)</sup>	100	100–1,000

Available from stock

Upon request/check availability

## Specialist for pivoting and pulsating loads – iglide® J3



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRJ3-1000-□ <sup>16)</sup>	10	100–1,000
SFRJ3-1500-□ <sup>16)</sup>	15	100–1,000
SFRJ3-2000-□ <sup>16)</sup>	20	100–1,000
SFRJ3-2500-□ <sup>16)</sup>	25	100–1,000
SFRJ3-3000-□ <sup>16)</sup>	30	100–1,000
SFRJ3-3500-□ <sup>16)</sup>	35	100–1,000
SFRJ3-4000-□ <sup>16)</sup>	40	100–1,000
SFRJ3-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R J3 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRJ3-5000-□ <sup>16)</sup>	50	100–1,000
SFRJ3-5500-□ <sup>16)</sup>	55	100–1,000
SFRJ3-6000-□ <sup>16)</sup>	60	100–1,000
SFRJ3-6500-□ <sup>16)</sup>	65	100–1,000
SFRJ3-7000-□ <sup>16)</sup>	70	100–1,000
SFRJ3-8000-□ <sup>16)</sup>	80	100–1,000
SFRJ3-9000-□ <sup>16)</sup>	90	100–1,000
SFRJ3-10000-□ <sup>16)</sup>	100	100–1,000

## Endurance runner with high dimensional stability at high temperature – iglide® J350



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRJ350-1000-□ <sup>16)</sup>	10	100–1,000
SFRJ350-1500-□ <sup>16)</sup>	15	100–1,000
SFRJ350-2000-□ <sup>16)</sup>	20	100–1,000
SFRJ350-2500-□ <sup>16)</sup>	25	100–1,000
SFRJ350-3000-□ <sup>16)</sup>	30	100–1,000
SFRJ350-3500-□ <sup>16)</sup>	35	100–1,000
SFRJ350-4000-□ <sup>16)</sup>	40	100–1,000
SFRJ350-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R J350 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRJ350-5000-□ <sup>16)</sup>	50	100–1,000
SFRJ350-5500-□ <sup>16)</sup>	55	100–1,000
SFRJ350-6000-□ <sup>16)</sup>	60	100–1,000
SFRJ350-6500-□ <sup>16)</sup>	65	100–1,000
SFRJ350-7000-□ <sup>16)</sup>	70	100–1,000
SFRJ350-8000-□ <sup>16)</sup>	80	100–1,000
SFRJ350-9000-□ <sup>16)</sup>	90	100–1,000
SFRJ350-10000-□ <sup>16)</sup>	100	100–1,000



igus® constantly expands its range of available materials and dimensions. Please contact us in case the required diameter is not available.



## Ideal for plastic shafts – iglide® J260



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRJ260-1000-□ <sup>16)</sup>	10	100–1,000
SFRJ260-1500-□ <sup>16)</sup>	15	100–1,000
SFRJ260-2000-□ <sup>16)</sup>	20	100–1,000
SFRJ260-2500-□ <sup>16)</sup>	25	100–1,000
<b>SFRJ260-3000-□<sup>16)</sup></b>	<b>30</b>	<b>100–1,000</b>
SFRJ260-3500-□ <sup>16)</sup>	35	100–1,000
SFRJ260-4000-□ <sup>16)</sup>	40	100–1,000
SFRJ260-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

## Low-cost – iglide® R



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRR-1000-□ <sup>16)</sup>	10	100–1,000
SFRR-1500-□ <sup>16)</sup>	15	100–1,000
SFRR-2000-□ <sup>16)</sup>	20	100–1,000
SFRR-2500-□ <sup>16)</sup>	25	100–1,000
<b>SFRR-3000-□<sup>16)</sup></b>	<b>30</b>	<b>100–1,000</b>
SFRR-3500-□ <sup>16)</sup>	35	100–1,000
SFRR-4000-□ <sup>16)</sup>	40	100–1,000
SFRR-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

Available from stock

Upon request/check availability

### Order key for round bars

Type	Dimensions [mm]
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**SF R J260 - 30 00 - □**

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRJ260-5000-□ <sup>16)</sup>	50	100–1,000
SFRJ260-5500-□ <sup>16)</sup>	55	100–1,000
<b>SFRJ260-6000-□<sup>16)</sup></b>	<b>60</b>	<b>100–1,000</b>
SFRJ260-6500-□ <sup>16)</sup>	65	100–1,000
SFRJ260-7000-□ <sup>16)</sup>	70	100–1,000
SFRJ260-8000-□ <sup>16)</sup>	80	100–1,000
SFRJ260-9000-□ <sup>16)</sup>	90	100–1,000
SFRJ260-10000-□ <sup>16)</sup>	100	100–1,000

### Order key for round bars

Type	Dimensions [mm]
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**SF R R - 30 00 - □**

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRR-5000-□ <sup>16)</sup>	50	100–1,000
SFRR-5500-□ <sup>16)</sup>	55	100–1,000
<b>SFRR-6000-□<sup>16)</sup></b>	<b>60</b>	<b>100–1,000</b>
SFRR-6500-□ <sup>16)</sup>	65	100–1,000
SFRR-7000-□ <sup>16)</sup>	70	100–1,000
SFRR-8000-□ <sup>16)</sup>	80	100–1,000
SFRR-9000-□ <sup>16)</sup>	90	100–1,000
SFRR-10000-□ <sup>16)</sup>	100	100–1,000



## Specially for aluminum shafts – iglide® J200



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRJ200-1000-□ <sup>16)</sup>	10	100–1,000
SFRJ200-1500-□ <sup>16)</sup>	15	100–1,000
SFRJ200-2000-□ <sup>16)</sup>	20	100–1,000
SFRJ200-2500-□ <sup>16)</sup>	25	100–1,000
SFRJ200-3000-□ <sup>16)</sup>	30	100–1,000
SFRJ200-3500-□ <sup>16)</sup>	35	100–1,000
SFRJ200-4000-□ <sup>16)</sup>	40	100–1,000
SFRJ200-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R J200 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRJ200-5000-□ <sup>16)</sup>	50	100–1,000
SFRJ200-5500-□ <sup>16)</sup>	55	100–1,000
SFRJ200-6000-□ <sup>16)</sup>	60	100–1,000
SFRJ200-6500-□ <sup>16)</sup>	65	100–1,000
SFRJ200-7000-□ <sup>16)</sup>	70	100–1,000
SFRJ200-8000-□ <sup>16)</sup>	80	100–1,000
SFRJ200-9000-□ <sup>16)</sup>	90	100–1,000
SFRJ200-10000-□ <sup>16)</sup>	100	100–1,000

## Extremely wear-resistant in black – iglide® JB



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRJB-1000-□ <sup>16)</sup>	10	100–1,000
SFRJB-1500-□ <sup>16)</sup>	15	100–1,000
SFRJB-2000-□ <sup>16)</sup>	20	100–1,000
SFRJB-2500-□ <sup>16)</sup>	25	100–1,000
SFRJB-3000-□ <sup>16)</sup>	30	100–1,000
SFRJB-3500-□ <sup>16)</sup>	35	100–1,000
SFRJB-4000-□ <sup>16)</sup>	40	100–1,000
SFRJB-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R JB - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRJB-5000-□ <sup>16)</sup>	50	100–1,000
SFRJB-5500-□ <sup>16)</sup>	55	100–1,000
SFRJB-6000-□ <sup>16)</sup>	60	100–1,000
SFRJB-6500-□ <sup>16)</sup>	65	100–1,000
SFRJB-7000-□ <sup>16)</sup>	70	100–1,000
SFRJB-8000-□ <sup>16)</sup>	80	100–1,000
SFRJB-9000-□ <sup>16)</sup>	90	100–1,000
SFRJB-10000-□ <sup>16)</sup>	100	100–1,000



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## The chemical and temperature specialist – iglide® T500



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRX-1000-□ <sup>16)</sup>	10	100–1,000
SFRX-1500-□ <sup>16)</sup>	15	100–1,000
SFRX-2000-□ <sup>16)</sup>	20	100–1,000
SFRX-2500-□ <sup>16)</sup>	25	100–1,000
SFRX-3000-□ <sup>16)</sup>	30	100–1,000
SFRX-3500-□ <sup>16)</sup>	35	100–1,000
SFRX-4000-□ <sup>16)</sup>	40	100–1,000
SFRX-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R X -30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRX-5000-□ <sup>16)</sup>	50	100–1,000
SFRX-5500-□ <sup>16)</sup>	55	100–1,000
SFRX-6000-□ <sup>16)</sup>	60	100–1,000
SFRX-6500-□ <sup>16)</sup>	65	100–1,000
SFRX-7000-□ <sup>16)</sup>	70	100–1,000
SFRX-8000-□ <sup>16)</sup>	80	100–1,000
SFRX-9000-□ <sup>16)</sup>	90	100–1,000
SFRX-10000-□ <sup>16)</sup>	100	100–1,000

## All-rounder for steam sterilization – iglide® HSD350



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRHSD350-1000-□ <sup>16)</sup>	10	100–1,000
SFRHSD350-1500-□ <sup>16)</sup>	15	100–1,000
SFRHSD350-2000-□ <sup>16)</sup>	20	100–1,000
SFRHSD350-250-□ <sup>16)</sup>	25	100–1,000
SFRHSD350-3000-□ <sup>16)</sup>	30	100–1,000
SFRHSD350-3500-□ <sup>16)</sup>	35	100–1,000
SFRHSD350-4000-□ <sup>16)</sup>	40	100–1,000
SFRHSD350-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

Available from stock

Upon request/check availability



Order key for round bars

Type	Dimensions [mm]
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SF R HSD350 -30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRHSD350-5000-□ <sup>16)</sup>	50	100–1,000
SFRHSD350-5500-□ <sup>16)</sup>	55	100–1,000
SFRHSD350-6000-□ <sup>16)</sup>	60	100–1,000
SFRHSD350-6500-□ <sup>16)</sup>	65	100–1,000
SFRHSD350-7000-□ <sup>16)</sup>	70	100–1,000
SFRHSD350-8000-□ <sup>16)</sup>	80	100–1,000
SFRHSD350-9000-□ <sup>16)</sup>	90	100–1,000
SFRHSD350-10000-□ <sup>16)</sup>	100	100–1,000

## Endurance runner with high media resistance – iglide® H1



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRH1-1000-□ <sup>16)</sup>	10	100–1,000
SFRH1-1500-□ <sup>16)</sup>	15	100–1,000
SFRH1-2000-□ <sup>16)</sup>	20	100–1,000
SFRH1-2500-□ <sup>16)</sup>	25	100–1,000
SFRH1-3000-□ <sup>16)</sup>	30	100–1,000
SFRH1-3500-□ <sup>16)</sup>	35	100–1,000
SFRH1-4000-□ <sup>16)</sup>	40	100–1,000
SFRH1-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
SF R H1 - 30 00 - □	
Bar stock	
Round bar	
iglide® material	
Outer Ø	
Inner Ø	
Length	

Part No.	Ø	Lengths <sup>16)</sup>
SFRH1-5000-□ <sup>16)</sup>	50	100–1,000
SFRH1-5500-□ <sup>16)</sup>	55	100–1,000
SFRH1-6000-□ <sup>16)</sup>	60	100–1,000
SFRH1-6500-□ <sup>16)</sup>	65	100–1,000
SFRH1-7000-□ <sup>16)</sup>	70	100–1,000
SFRH1-8000-□ <sup>16)</sup>	80	100–1,000
SFRH1-9000-□ <sup>16)</sup>	90	100–1,000
SFRH1-10000-□ <sup>16)</sup>	100	100–1,000

## For extreme ambient conditions – iglide® C500



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRC500-1000-□ <sup>16)</sup>	10	100–1,000
SFRC500-1500-□ <sup>16)</sup>	15	100–1,000
SFRC500-2000-□ <sup>16)</sup>	20	100–1,000
SFRC500-2500-□ <sup>16)</sup>	25	100–1,000
SFRC500-3000-□ <sup>16)</sup>	30	100–1,000
SFRC500-3500-□ <sup>16)</sup>	35	100–1,000
SFRC500-4000-□ <sup>16)</sup>	40	100–1,000
SFRC500-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
SF R C500 - 30 00 - □	
Bar stock	
Round bar	
iglide® material	
Outer Ø	
Inner Ø	
Length	

Part No.	Ø	Lengths <sup>16)</sup>
SFRC500-5000-□ <sup>16)</sup>	50	100–1,000
SFRC500-5500-□ <sup>16)</sup>	55	100–1,000
SFRC500-6000-□ <sup>16)</sup>	60	100–1,000
SFRC500-6500-□ <sup>16)</sup>	65	100–1,000
SFRC500-7000-□ <sup>16)</sup>	70	100–1,000
SFRC500-8000-□ <sup>16)</sup>	80	100–1,000
SFRC500-9000-□ <sup>16)</sup>	90	100–1,000
SFRC500-10000-□ <sup>16)</sup>	100	100–1,000



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## The all-rounder for food, FDA and EU 10/2011-compliant – iglide® A181



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRA181-1000-□ <sup>16)</sup>	10	100–1,000
SFRA181-1500-□ <sup>16)</sup>	15	100–1,000
SFRA181-2000-□ <sup>16)</sup>	20	100–1,000
SFRA181-2500-□ <sup>16)</sup>	25	100–1,000
SFRA181-3000-□ <sup>16)</sup>	30	100–1,000
SFRA181-3500-□ <sup>16)</sup>	35	100–1,000
SFRA181-4000-□ <sup>16)</sup>	40	100–1,000
SFRA181-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R A181 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRA181-5000-□ <sup>16)</sup>	50	100–1,000
SFRA181-5500-□ <sup>16)</sup>	55	100–1,000
SFRA181-6000-□ <sup>16)</sup>	60	100–1,000
SFRA181-6500-□ <sup>16)</sup>	65	100–1,000
SFRA181-7000-□ <sup>16)</sup>	70	100–1,000
SFRA181-8000-□ <sup>16)</sup>	80	100–1,000
SFRA181-9000-□ <sup>16)</sup>	90	100–1,000
SFRA181-10000-□ <sup>16)</sup>	100	100–1,000

## The FDA-compliant endurance runner at higher temperatures – iglide® A350



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRA350-1000-□ <sup>16)</sup>	10	100–1,000
SFRA350-1500-□ <sup>16)</sup>	15	100–1,000
SFRA350-2000-□ <sup>16)</sup>	20	100–1,000
SFRA350-2500-□ <sup>16)</sup>	25	100–1,000
SFRA350-3000-□ <sup>16)</sup>	30	100–1,000
SFRA350-3500-□ <sup>16)</sup>	35	100–1,000*
SFRA350-4000-□ <sup>16)</sup>	40	100–1,000
SFRA350-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R A350 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRA350-5000-□ <sup>16)</sup>	50	100–1,000
SFRA350-5500-□ <sup>16)</sup>	55	100–1,000
SFRA350-6000-□ <sup>16)</sup>	60	100–1,000
SFRA350-6500-□ <sup>16)</sup>	65	100–1,000
SFRA350-7000-□ <sup>16)</sup>	70	100–1,000
SFRA350-8000-□ <sup>16)</sup>	80	100–1,000
SFRA350-9000-□ <sup>16)</sup>	90	100–1,000
SFRA350-10000-□ <sup>16)</sup>	100	100–1,000

Available from stock

Upon request/check availability

## The media and temperature specialist in the food sector – iglide® A500



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRA500-1000-□ <sup>16)</sup>	10	100–1,000
SFRA500-1500-□ <sup>16)</sup>	15	100–1,000
SFRA500-2000-□ <sup>16)</sup>	20	100–1,000
SFRA500-2500-□ <sup>16)</sup>	25	100–1,000
SFRA500-3000-□ <sup>16)</sup>	30	100–1,000
SFRA500-3500-□ <sup>16)</sup>	35	100–1,000
SFRA500-4000-□ <sup>16)</sup>	40	100–1,000
SFRA500-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R A500 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRA500-5000-□ <sup>16)</sup>	50	100–1,000
SFRA500-5500-□ <sup>16)</sup>	55	100–1,000
SFRA500-6000-□ <sup>16)</sup>	60	100–1,000
SFRA500-6500-□ <sup>16)</sup>	65	100–1,000
SFRA500-7000-□ <sup>16)</sup>	70	100–1,000
SFRA500-8000-□ <sup>16)</sup>	80	100–1,000
SFRA500-9000-□ <sup>16)</sup>	90	100–1,000
SFRA500-10000-□ <sup>16)</sup>	100	100–1,000

## The all-rounder for food – iglide® A180



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRA180-1000-□ <sup>16)</sup>	10	100–1,000
SFRA180-1500-□ <sup>16)</sup>	15	100–1,000
SFRA180-2000-□ <sup>16)</sup>	20	100–1,000
SFRA180-2005-□ <sup>16)</sup>	25	100–1,000
SFRA180-3000-□ <sup>16)</sup>	30	100–1,000
SFRA180-3500-□ <sup>16)</sup>	35	100–1,000
SFRA180-4000-□ <sup>16)</sup>	40	100–1,000
SFRA180-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R A180 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRA180-5000-□ <sup>16)</sup>	50	100–1,000
SFRA180-5500-□ <sup>16)</sup>	55	100–1,000
SFRA180-6000-□ <sup>16)</sup>	60	100–1,000
SFRA180-6500-□ <sup>16)</sup>	65	100–1,000
SFRA180-7000-□ <sup>16)</sup>	70	100–1,000
SFRA180-8000-□ <sup>16)</sup>	80	100–1,000
SFRA180-9000-□ <sup>16)</sup>	90	100–1,000
SFRA180-10000-□ <sup>16)</sup>	100	100–1,000



igus® constantly expands its range of available materials and dimensions. Please contact us in case the required diameter is not available.



“Food” material with high media resistance up to +194 °F – iglide® A160



Order key for round bars

Type	Dimensions [mm]
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SF R A160 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRA160-1000-□ <sup>16)</sup>	10	100–1,000
SFRA160-1500-□ <sup>16)</sup>	15	100–1,000
SFRA160-2000-□ <sup>16)</sup>	20	100–1,000
SFRA160-2500-□ <sup>16)</sup>	25	100–1,000
SFRA160-3000-□ <sup>16)</sup>	30	100–1,000
SFRA160-3500-□ <sup>16)</sup>	35	100–1,000
SFRA160-4000-□ <sup>16)</sup>	40	100–1,000
SFRA160-4500-□ <sup>16)</sup>	45	100–1,000

Part No.	Ø	Lengths <sup>16)</sup>
SFRA160-5000-□ <sup>16)</sup>	50	100–1,000
SFRA160-5500-□ <sup>16)</sup>	55	100–1,000
SFRA160-6000-□ <sup>16)</sup>	60	100–1,000
SFRA160-6500-□ <sup>16)</sup>	65	100–1,000
SFRA160-7000-□ <sup>16)</sup>	70	100–1,000
SFRA160-8000-□ <sup>16)</sup>	80	100–1,000
SFRA160-9000-□ <sup>16)</sup>	90	100–1,000
SFRA160-10000-□ <sup>16)</sup>	100	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

For contact with drinking water – iglide® UW160



Order key for round bars

Type	Dimensions [mm]
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SF R UW160 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRUW160-1000-□ <sup>16)</sup>	10	100–1,000
SFRUW160-1500-□ <sup>16)</sup>	15	100–1,000
SFRUW160-2000-□ <sup>16)</sup>	20	100–1,000
SFRUW160-2500-□ <sup>16)</sup>	25	100–1,000
SFRUW160-3000-□ <sup>16)</sup>	30	100–1,000
SFRUW160-3500-□ <sup>16)</sup>	35	100–1,000
SFRUW160-4000-□ <sup>16)</sup>	40	100–1,000
SFRUW160-4500-□ <sup>16)</sup>	45	100–1,000

Part No.	Ø	Lengths <sup>16)</sup>
SFRUW160-5000-□ <sup>16)</sup>	50	100–1,000
SFRUW160-5500-□ <sup>16)</sup>	55	100–1,000
SFRUW160-6000-□ <sup>16)</sup>	60	100–1,000
SFRUW160-6500-□ <sup>16)</sup>	65	100–1,000
SFRUW160-7000-□ <sup>16)</sup>	70	100–1,000
SFRUW160-8000-□ <sup>16)</sup>	80	100–1,000
SFRUW160-9000-□ <sup>16)</sup>	90	100–1,000
SFRUW160-10000-□ <sup>16)</sup>	100	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

Available from stock

Upon request/check availability

## For the tobacco industry – iglide® T220



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRT220-1000-□ <sup>16)</sup>	10	100–1,000
SFRT220-1500-□ <sup>16)</sup>	15	100–1,000
SFRT220-2000-□ <sup>16)</sup>	20	100–1,000
SFRT220-2500-□ <sup>16)</sup>	25	100–1,000
SFRT220-3000-□ <sup>16)</sup>	30	100–1,000
SFRT220-3500-□ <sup>16)</sup>	35	100–1,000
SFRT220-4000-□ <sup>16)</sup>	40	100–1,000
SFRT220-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R T220 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRT220-5000-□ <sup>16)</sup>	50	100–1,000
SFRT220-5500-□ <sup>16)</sup>	55	100–1,000
SFRT220-6000-□ <sup>16)</sup>	60	100–1,000
SFRT220-6500-□ <sup>16)</sup>	65	100–1,000
SFRT220-7000-□ <sup>16)</sup>	70	100–1,000
SFRT220-8000-□ <sup>16)</sup>	80	100–1,000
SFRT220-9000-□ <sup>16)</sup>	90	100–1,000
SFRT220-10000-□ <sup>16)</sup>	100	100–1,000

## Used to prevent electro-static charges – iglide® F2



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRF2-1000-□ <sup>16)</sup>	10	100–1,000
SFRF2-1500-□ <sup>16)</sup>	15	100–1,000
SFRF2-2000-□ <sup>16)</sup>	20	100–1,000
SFRF2-2500-□ <sup>16)</sup>	25	100–1,000
SFRF2-3000-□ <sup>16)</sup>	30	100–1,000
SFRF2-3500-□ <sup>16)</sup>	35	100–1,000
SFRF2-4000-□ <sup>16)</sup>	40	100–1,000
SFRF2-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R F2 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRF2-5000-□ <sup>16)</sup>	50	100–1,000
SFRF2-5500-□ <sup>16)</sup>	55	100–1,000
SFRF2-6000-□ <sup>16)</sup>	60	100–1,000
SFRF2-6500-□ <sup>16)</sup>	65	100–1,000
SFRF2-7000-□ <sup>16)</sup>	70	100–1,000
SFRF2-8000-□ <sup>16)</sup>	80	100–1,000
SFRF2-9000-□ <sup>16)</sup>	90	100–1,000
SFRF2-10000-□ <sup>16)</sup>	100	100–1,000



iglus® constantly expands its range of available materials and dimensions. Please contact us in case the required diameter is not available.



## Versatile and cost-effective – iglide® J2



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRJ2-1000-□ <sup>16)</sup>	10	100–1,000
SFRJ2-1500-□ <sup>16)</sup>	15	100–1,000
SFRJ2-2000-□ <sup>16)</sup>	20	100–1,000
SFRJ2-2500-□ <sup>16)</sup>	25	100–1,000
SFRJ2-3000-□ <sup>16)</sup>	30	100–1,000
SFRJ2-3500-□ <sup>16)</sup>	35	100–1,000
SFRJ2-4000-□ <sup>16)</sup>	40	100–1,000
SFRJ2-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R J2 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRJ2-5000-□ <sup>16)</sup>	50	100–1,000
SFRJ2-5500-□ <sup>16)</sup>	55	100–1,000
SFRJ2-6000-□ <sup>16)</sup>	60	100–1,000
SFRJ2-6500-□ <sup>16)</sup>	65	100–1,000
SFRJ2-7000-□ <sup>16)</sup>	70	100–1,000
SFRJ2-8000-□ <sup>16)</sup>	80	100–1,000
SFRJ2-9000-□ <sup>16)</sup>	90	100–1,000
SFRJ2-10000-□ <sup>16)</sup>	100	100–1,000

## For the rail industry, flame-retardant, complies with DIN EN 45545 HL3, R22/R23 – iglide® RW370



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRRW370-1000-□ <sup>16)</sup>	10	100–1,000
SFRRW370-1500-□ <sup>16)</sup>	15	100–1,000
SFRRW370-2000-□ <sup>16)</sup>	20	100–1,000
SFRRW370-2500-□ <sup>16)</sup>	25	100–1,000
SFRRW370-3000-□ <sup>16)</sup>	30	100–1,000
SFRRW370-3500-□ <sup>16)</sup>	35	100–1,000
SFRRW370-4000-□ <sup>16)</sup>	40	100–1,000
SFRRW370-4500-□ <sup>16)</sup>	45	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



Order key for round bars

Type	Dimensions [mm]
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SF R RW370 - 30 00 - □

Bar stock	Round bar	iglide® material	Outer Ø	Inner Ø	Length
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Part No.	Ø	Lengths <sup>16)</sup>
SFRRW370-5000-□ <sup>16)</sup>	50	100–1,000
SFRRW370-5500-□ <sup>16)</sup>	55	100–1,000
SFRRW370-6000-□ <sup>16)</sup>	60	100–1,000
SFRRW370-6500-□ <sup>16)</sup>	65	100–1,000
SFRRW370-7000-□ <sup>16)</sup>	70	100–1,000
SFRRW370-8000-□ <sup>16)</sup>	80	100–1,000
SFRRW370-9000-□ <sup>16)</sup>	90	100–1,000
SFRRW370-10000-□ <sup>16)</sup>	100	100–1,000

Available from stock

Upon request/check availability



For long service life under extreme loads – iglide® Q2



In your required length, freely selectable between 100 and 1,000mm\*.

Cut-to-size parts are delivered oversized.



Order key for round bars

Type	Dimensions [mm]
SF R Q2 - 30 00 - □	
Bar stock	Round bar
iglide® material	Outer Ø
	Inner Ø
	Length

## Dimensions [mm]

Part No.	Ø	Lengths <sup>16)</sup>
SFRQ2-1000-□ <sup>16)</sup>	10	100–1,000
SFRQ2-1500-□ <sup>16)</sup>	15	100–1,000
SFRQ2-2000-□ <sup>16)</sup>	20	100–1,000
SFRQ2-2500-□ <sup>16)</sup>	25	100–1,000
SFRQ2-3000-□ <sup>16)</sup>	30	100–1,000
SFRQ2-3500-□ <sup>16)</sup>	35	100–1,000
SFRQ2-4000-□ <sup>16)</sup>	40	100–1,000
SFRQ2-4500-□ <sup>16)</sup>	45	100–1,000

Part No.	Ø	Lengths <sup>16)</sup>
SFRQ2-5000-□ <sup>16)</sup>	50	100–1,000
SFRQ2-5500-□ <sup>16)</sup>	55	100–1,000
SFRQ2-6000-□ <sup>16)</sup>	60	100–1,000
SFRQ2-6500-□ <sup>16)</sup>	65	100–1,000
SFRQ2-7000-□ <sup>16)</sup>	70	100–1,000
SFRQ2-8000-□ <sup>16)</sup>	80	100–1,000
SFRQ2-9000-□ <sup>16)</sup>	90	100–1,000
SFRQ2-10000-□ <sup>16)</sup>	100	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply



igus® constantly expands its range of available materials and dimensions. Please contact us in the event the required diameter is not available.



3D-CAD files, prices and delivery time ► [www.igus.com/barstock](http://www.igus.com/barstock)

## The versatile endurance runner – iglide® J



Order key for round bars

Type			Dimensions [mm]		
SF	T	J	-110	70-	□
Bar stock	Tube	iglide® material	Outer Ø	Inner Ø	Length

In your required length, freely selectable between 100 and 1,000mm\*.

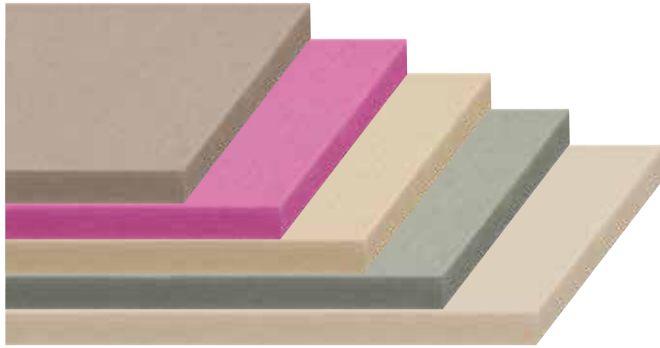
Cut-to-size parts are delivered oversized.

### Dimensions [mm]

Part No.	Inner Ø	Inner diameter tolerance	Outer Ø	Outer diameter tolerance	Length <sup>16)</sup>
SFTJ-11070	70	-2.0 / -6.5	110	+1.5 / +4.5	100–1,000
SFTJ-12570	70	-2.0 / -6.5	125	+1.5 / +4.5	100–1,000
SFTJ-150100	100	-2.0 / -6.5	150	+1.5 / +4.5	100–1,000

\*Shorter lengths are possible but longer lead-times and cut charges may apply

Solve wear problems quickly with iglide® plate strips

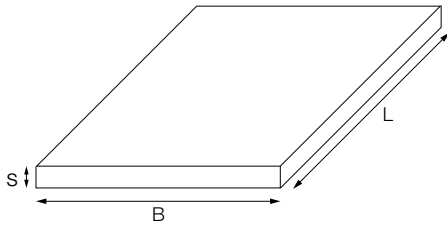


Order key for plates

Type	Dimensions [mm]
SF P	□ - 15 - 160 - □
Bar stock	
Plate	
iglide® material	
Material thickness	
Width	
Length	

## Dimensions [mm]

iglide® material	Part No.	Material thickness	Thickness Tolerance [mm]	Width
<b>iglide® A500</b>				
	SFPA500-06-160-□	6	+0.000 +0.300	160
	SFPA500-10-160-□	10	+0.200 +0.900	160
	SFPA500-15-160-□	15	+0.300 +1.500	160
<b>iglide® C500</b>				
	SFPC500-15-160-□	15	+0.300 +1.500	160
<b>iglide® J350</b>				
	SFPJ350-15-160-□	15	+0.300 +1.500	160
<b>iglide® J4</b>				
	SFPJ4-06-160-□	6	+0.000 +0.300	160
<b>iglide® W300</b>				
	SFPW300-15-160-□	15	+0.300 +1.500	160
<b>iglide® A350</b>				
	SFPA350-10-160-□	10	+0.200 +0.900	160
<b>iglide® RW370</b>				
	SFPRW370-06-160-□	6	+0.000 +0.300	160
	SFPRW370-15-160-□	15	+0.300 +1.500	160
<b>iglide® HSD350</b>				
	SFPHSD350-50-160-□	50	+0.500 +3.500	160
<b>iglide® X</b>				
	SFPX-06-160-□	6	+0.000 +0.300	160
	SFPX-10-160-□	10	+0.200 +0.900	160



Plastic plates made from iglide® can be supplied cut to size, with thickness ranging from 2mm to 40mm and available in up to 7 standard sizes.



## Order key for plates

Type   Dimensions [mm]  

**SF P**  -  **500-240**

Bar stock	Plate	iglide® material	Material thickness	Width	Length
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## The versatile endurance runner – iglide® J



Part No.	Dimensions (L x B)	Material thickness [mm] (s)
SFPJ-□-500-240	500x240	2 / 3 / 4 / 5 / 6
SFPJ-□-500-300	500x300	10 / 15 / 20 / 25 / 30 / 40
SFPJ-□-500-500	500x500	2 / 3 / 4 / 5 / 6
SFPJ-□-500-610	500x610	10 / 15 / 20 / 25 / 30 / 40
SFPJ-□-1000-500	1,000x500	2 / 3 / 4 / 5 / 6
SFPJ-□-1000-610	1,000x610	10 / 15 / 20 / 25 / 30 / 40
SFPJ-□-1000-1000	1,000x1,000	2 / 3 / 4 / 5 / 6

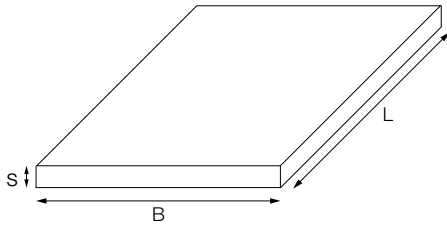
Tolerances	
Material thickness [mm]	Tolerance
2	+0.000 +0.200
3	+0.000 +0.200
4	+0.000 +0.250
5	+0.000 +0.250
6	+0.000 +0.300
10	+0.200 +0.900
15	+0.300 +1.500
20	+0.300 +1.500
25	+0.300 +1.500
30	+0.500 +2.500
40	+0.500 +2.500

## Extremely wear-resistant in black – iglide® JB



Part No.	Dimensions (L x B)	Material thickness (s)
SFPJB-□-500-300	500x300	10 / 25
SFPJB-□-500-610	500x610	10 / 25
SFPJB-□-1000-610	1,000x610	10 / 25

Tolerances	
Material thickness	Tolerance
10	+0.200 +0.900
25	+0.300 +1.500



Plastic plates made from iglide® can be supplied cut to size, with thickness ranging from 2mm to 40mm and available in up to 7 standard sizes.



## Order key for plates

Type	Dimensions [mm]
SF P □ - □	500-240
Bar stock	
Plate	
iglide® material	
Material thickness	
Width	
Length	

## The FDA-compliant endurance runner at higher temperatures – iglide® A350



Part No.	Dimensions (L x B)	Material thickness (s)
SFPA350-□-500-300	500x300	15 / 20 / 25 / 30
SFPA350-□-500-610	500x610	15 / 20 / 25 / 30
SFPA350-□-1000-610	1,000x610	15 / 20 / 25 / 30

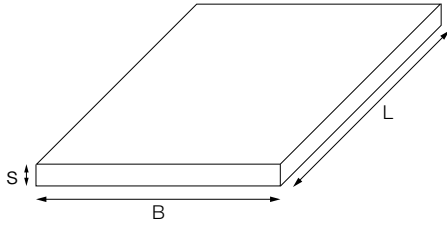
Tolerances	
Material thickness	Tolerance
15	+0.300 +1.500
20	+0.300 +1.500
25	+0.300 +1.500
30	+0.500 +2.500

## FDA and EU 10/2011-compliant - iglide® A160



Part No.	Dimensions (L x B)	Material thickness (s)
SFPA160-□-500-300	500x300	10 / 20
SFPA160-□-500-610	500x610	10 / 20
SFPA160-□-1000-610	1,000x610	10 / 20

Tolerances	
Material thickness	Tolerance
10	+0.200 +0.900
20	+0.300 +1.500



Plastic plates made from iglide® can be supplied cut to size, with thickness ranging from 2mm to 40mm and available in up to 7 standard sizes.



## Order key for plates

Type      Dimensions [mm]

SF P □ - □ 500 - 240

Bar stock	Plate	iglide® material	Material thickness	Width	Length
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## FDA-compliant – iglide® A180



Part No.	Dimensions (L x B)	Material thickness (s)	Tolerances	
			Material thickness	Tolerance
SFPA180-□-500-300	500x300	10 / 20	10	+0.200 +0.900
SFPA180-□-500-610	500x610	10 / 20	20	+0.300 +1.500
SFPA180-□-1000-610	1,000x610	10 / 20		

Tolerances	
Material thickness	Tolerance
10	+0.200 +0.900
20	+0.300 +1.500

## Flame-retardant – iglide® RW370



Part No.	Dimensions (L x B)	Material thickness (s)	Tolerances	
			Material thickness	Tolerance
RW370P 500-300 □	500x300	10 / 20	10	+0.200 +0.900
RW370P 500-610 □	500x610	10 / 20	20	+0.300 +1.500
RW370P 1000-610 □	1,000x610	10 / 20		

Tolerances	
Material thickness	Tolerance
10	+0.200 +0.900
20	+0.300 +1.500

# iglide® bar stock |



Special parts and machined special designs for prototypes and small series requirements made of igus® tribo-plastics, calculated online and delivered without delay.

**Your requirements**

Maximum holding times in dry operation

Low coefficients of friction

Max. static surface pressure (23 °C) 0 Mpa

Dirt resistant

High resistance to chemicals

Upper long-term application temperature 80 °C

vibration dampening

Good in misalignment

Lower application temperature -10 °C

Low moisture absorption

Underwater application

FDA compatible/ Foodstuff

cost effective

metric imperial

**iglidur® materials suited for you:**

[iglidur® P 210](#) [iglidur® W100](#) [iglidur® A180](#) [iglidur® R](#) [iglidur® J1](#) [iglidur® P 210](#)

iglidur® material with best suitability iglidur® material with good suitability

## Find & compare bar stock

This material finder helps you find the right iglide® material for your project with a few clicks!

► [www.igus.com/barstock-finder](http://www.igus.com/barstock-finder)

**igus plastics for longer life!** Search e.g. article number

**Plastic Bar Stock Turned & Milled to Your Exact Specifications**

igus® uses plastic bar stock consisting of iglidur® high performance polymers to manufacture individual components and prototypes according to your custom requirements. This enables us to produce wear-resistant and maintenance-free custom plastic bar stock in the form of round rods, hollow rods or plates.

iglide materials have a range of properties, such as low coefficients of friction, or high temperature resistance. All materials are resistant to dust, dirt, corrosion and humidity, making our custom bar stock an ideal solution for any possible application.

**iglidur®**  
Always the right solution

[Submit an inquiry for custom barstock parts](#)

## speedicut

### Fast manufacturing - fast delivery

Manufacturing of custom parts made from iglide® bar stock. A speedicut part is manufactured from a standard iglide® bar stock using a customer's drawing (3D model or 2D drawing). After uploading the drawing you will receive a quotation and the delivery date.

- Delivered from 5 to 7 days or sooner if required
- Precise manufacturing according to drawing
- Ideal for small quantities
- Max. diameter 100mm

► [www.igus.com/speedicut](http://www.igus.com/speedicut)

# iglide® bar stock | machining

## Machining of iglide® bar stock

### General information for achieving good results when processing iglide® bar stock:

Components with individual shapes can be produced at a low cost and quickly, whether manually or mechanically. In addition, the machining process guarantees a special precision and allows tight tolerances. Since the specific properties of the respective plastic material strongly influence the machining process, general statements about machining and machinability are limited. In particular, as far as the materials to be used and the optimal parameters are concerned, they are usually only found out through in-depth tests.

#### This should be taken into account when working with iglide® bar stock

- Ensure sufficient heat dissipation
- Always secure the material sufficiently
- Match machining tools and machining parameters to the respective material

#### Possible consequences for the bar stock in case of non-compliance

- Breakage or deformation due to local heating
- Expansion due to heat exposure
- Deformation due to insufficient holding



- Always use tools made of high speed steel (SS), high-performance high speed steel (HSS) or carbide (HM). Due to their temperature resistance, these high-alloyed tool steels or metal matrix composites allow the required high cutting speeds.
- Always use sharp, clean and technically perfect tools to achieve the necessary precision in the machining. Notch-sensitive plastics always require cuts as smooth as possible.
- Possible dimensional changes due to the greater thermal expansion of plastics compared to metals and the property to absorb water, plastics must be provided with greater manufacturing tolerances than for metallic parts.
- Plastics are poor heat conductors, so the heat generated at the interface is dissipated inadequately. Cooling from the outside (e.g. by compressed air or liquid coolant) prevents material softening or decomposition.
- To reduce any retrospective warping as a result of machining stresses, if large material volumes are to be machined, interim tempering should be used before the refined finishing stage.
- High cutting speeds and small chip cross sections lead to better results.

### Turning

Turning is an economical and fast process that requires only a small amount of material and is therefore often used in individual and high-volume production. The result is a smooth, groove-free surface. For this it was intended to use high-speed lathes (100-500 rpm) with sufficient cooling and tools made of HSS. The cutting geometry of the turning tool depends on the respective polymer material. The clearance angle should be 5-15°, the rake angle 0-10° and the adjustment angle 45-60°. In order to achieve the dissipation of the resulting heat and chips, a feed rate of 0.05-0.5mm/rpm should be set.

iglide® material	Clearance angle [°]	Rake angle [°]	Setting angle	Cutting speed [m/min]	Feed rate [mm/rpm]
A160, B160, W160	6 - 10	0 - 5	45 - 60	250 - 500	0.1 - 0.5
J, J2, J4, JB, A180, A181, J200, R	6 - 8	0 - 5	45 - 60	300 - 600	0.1 - 0.4
J260	5 - 10	6 - 8	45 - 60	300	0.1 - 0.5
L280, M250, GLW	6 - 10	0 - 5	45 - 60	250 - 500	0.1 - 0.5
P210, F2, T220	5 - 10	0 - 5	45 - 60	300 - 400	0.2 - 0.4
A350, J350	6	0	45 - 60	350 - 400	0.1 - 0.3
H, H1, H2, H4	6	0 - 5	45 - 60	250 - 500	0.1 - 0.5
T500, A500, C500	6	0 - 5	45 - 60	250 - 500	0.1 - 0.5



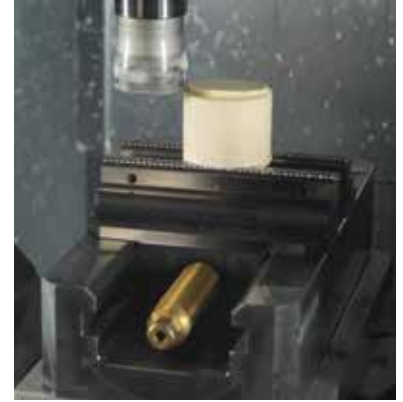


# iglide® bar stock | machining

## Milling

Milling represents high cutting performance and surface finish. For plastics, both synchronous and up-cut milling can be used. The cutting speed should be 80-500m/min. As a rule, the milling cutters for plastics have a low number of cutting edges, but the tools should definitely be of HSS. The rake angle can be 0-15° and the clearance angle 2-30°. For the feed, the setting of 0.02-0.3mm/rpm is best. This ensures the necessary chip removal and heat dissipation.

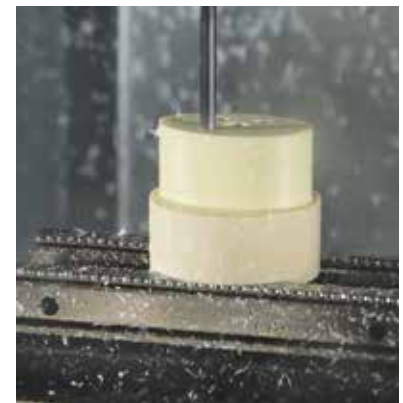
iglide® material	Number of teeth	Cutting speed [m/min]	Feed rate [mm/rpm]
A160, B160, W160	Z1 - Z2	250 - 500	0.1 - 0.45
J, J2, J4, JB, A180, A181, J200, R	Z1 - Z2	300	0.15 - 0.5
J260	Z1 - Z2	300	0.15 - 0.4
L280, M250, GLW	Z1 - Z2	250 - 500	0.1 - 0.45
P210, F2, T220	Z1 - Z2	300	0.15 - 0.5
A350, J350	Z1 - Z2	250 - 500	0.1 - 0.45
H, H1, H2, H4	Z1 - Z2	250 - 500	0.1 - 0.45
T500, A500, C500	Z1 - Z2	250 - 500	0.1 - 0.45



## Drilling

Drilling in plastics involves certain risks because of cracks, breaks or dimensional deviations. In addition, a heat accumulation must be prevented by constantly adequate cooling and steady chip removal. Normally twist drills are used for drilling plastic. The best ones have a steep twist for good chip removal. The drill should be made of HSS and allow a cutting speed of 20-200m/min. You have to choose a clearance angle of 3-16°, a rake angle of 0-15° and a point angle of 90-130°. For the feed, set 0.02-0.3mm/rpm.

iglide® material	Number of teeth	Angle of twist [°]	Point angle [°]	Cutting speed [m/min]	Feed rate
A160, B160, W160	Z2	25	90	50 - 150	0.1 - 0.3
J, J2, J4, JB, A180, A181, J200, R	Z2	25	90	50 - 150	0.1 - 0.3
J260	Z2	25	90	50 - 100	0.2 - 0.3
L280, M250, GLW	Z2	25	90	50 - 150	0.1 - 0.3
P210, F2, T220	Z2	25	90	50 - 100	0.2 - 0.3
A350, J350	Z2	25	90	20 - 80	0.1 - 0.3
H, H1, H2, H4	Z2	25	90	50 - 200	0.1 - 0.3
T500, A500, C500	Z2	25	90	50 - 200	0.1 - 0.3



# iglide® bar stock | tempering

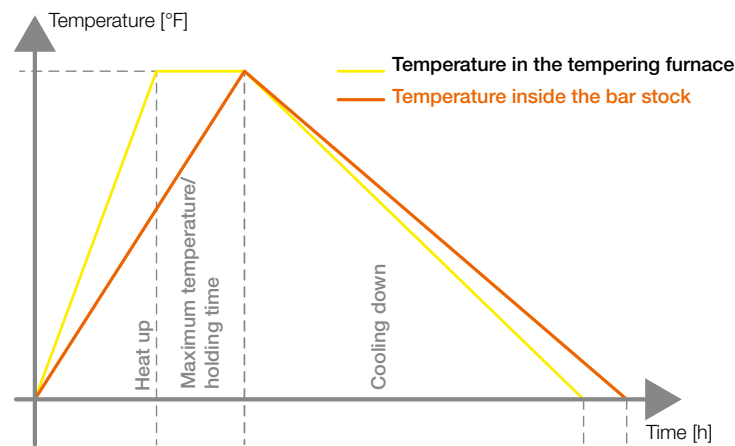
## Heat treatment against residual stress, deformation and dimensional change

iglide® subjects its bar stock to a material-specific tempering process so that they remain dimensionally stable during and after machining. All bar stock from 25mm thickness are tempered, regardless of the respective iglide® material. For materials that are suitable for use at high temperatures such as iglide® X, C500 or A500, all bar stock are basically tempered.

### What is tempering and how does it work?

During tempering, a material is subjected to a heat treatment for a prolonged period, during which the melting temperature is not exceeded. The selected temperature and the duration of the treatment vary depending on the material, material thickness and shape. It is crucial that the material is completely heated up and cooled slowly and evenly to room temperature after the holding time of the temperature. Tempering is particularly effective only with a slow cooling.

Tempering cycle of iglide® bar stock  
1 hour per cm diameter at +248°F



### That is the reason iglide® bar stock is tempered

The aim of the heat treatment is to reduce the stresses in the material and to achieve a higher and more uniform crystallinity. By uniform heating to a respective specific material temperature and slow cooling, the material can form a highly crystalline structure. Errors are compensated and the structure of the material improves.

The higher crystallinity of the material has a positive effect on the mechanical, thermal and chemical specifications of polymers. Materials become harder, more wear-resistant, more resistant to chemicals and heat by tempering. They

are less prone to deformation, dimensional change and shrinkage. Tempering is beneficial for the specifications of iglide® bar stock.

### What does stress do to the material?

If bar stock was not tempered after production, it would contain "frozen" stresses. During subsequent processing or during use, these stresses can cause the dimensions to change or the components to go out of shape. Basically, stresses lead to poorer machinability. In the worst case, it can cause cracks or flaking.

### Tempering specifications for iglide® materials

iglide® material	Heat up	Maximum temperature / Holding time	Cooling down
J, J2, J3, J4, J200, JB, A180, A181, B180	1 hour per cm diameter to +248°F	1 hour per cm diameter at +248°F	Cool down to maximum +68°F per hour until room temperature
J260	1 hour per cm diameter to +266°F	1 hour per cm diameter at +266°F	Cool down to maximum +68°F per hour until room temperature
L280, M250, GLW, P210, F2, T220	1 hour per cm diameter to 356°F	1 hour per cm diameter at +356°F	Cool down to maximum +68°F per hour until room temperature
A350, J350, H, H1, H2, H4	1 hour per cm diameter to 392°F	1 hour per cm diameter at +392°F	Cool down to maximum +68°F per hour until room temperature
T500, A500, C500	1 hour per cm diameter to +428°F	1 hour per cm diameter at +428°F	Cool down to maximum +68°F per hour until room temperature



# iglide<sup>®</sup> low-friction tribo-tape

4 available materials

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Self-lubricating and maintenance-free

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Wear-resistant

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Easy to cut

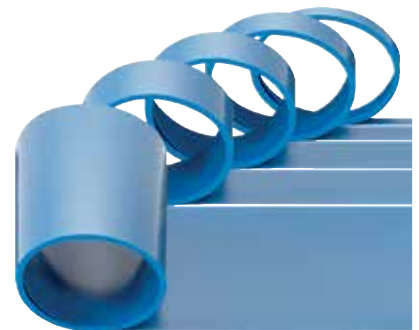
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Adhesive and non-adhesive versions

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Standard widths from stock

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# iglide® tribo-tape | Advantages

Versatile: iglide® tribo-tape



**Material: iglide® A160**

- Low coefficient of friction
- Wear resistance: ++
- Up to +194°F
- ▶ **Page 794**



**Material: iglide® B160**

- For use in visible areas
- Wear resistance: ++++
- Up to +194°F
- ▶ **Page 795**



**Material: iglide® W160**

- White and UV-stabilized
- Wear resistance: +++
- Up to +194°F
- ▶ **Page 796**



**Material: iglide® V400**

- High media resistance
- Wear resistance: +++++
- Up to 392°F with adhesive back see product page
- ▶ **Page 797**

## Easy-to-fit protection for all surfaces: iglide® tribo-tape

iglus® tribo-tape is designed for lining areas of wear and where frequent maintenance is required, an example is for machine beds etc. At just 0.5mm thick (0.71mm including the adhesive back), the space requirement is extremely low. The ease of use (the tape can simply be cut using scissors) and optional self-adhesive back open up almost endless possibilities for the product's use.

- Self-lubricating and maintenance-free
- Easy to cut
- For compact areas
- With or without self-adhesive back
- Standard widths from stock
- Individual required widths in continuous range from 10-500mm



**Available from stock**

Detailed information about delivery time online.



**Operation temperatures:**

<b>iglide® A160:</b>	<b>-58°F up to</b>	<b>+194°F</b>
<b>iglide® B160:</b>	<b>-58°F up to</b>	<b>+194°F</b>
<b>iglide® W160:</b>	<b>-58°F up to</b>	<b>+194°F</b>
<b>iglide® V400:</b>	<b>-58°F up to</b>	<b>+392°F</b>

Differing temperatures with adhesive back (see product page)



**Product film**

▶ [www.igus.com/tape-film](http://www.igus.com/tape-film)



**Cutting service**

Whether as a specially tailored by-the-meter product or freely designed pre-cut parts: We produce your required product in required width from our iglide® tribo-tape. Please contact us!

▶ [www.igus.com/tribo-tape](http://www.igus.com/tribo-tape)



## Material properties

Material properties table					
General properties	Unit	iglide® A160	iglide® B160	iglide® W160	iglide® V400
Density	g/cm <sup>3</sup>	1.00	1.00	0.95	1.51
Color		blue	black	white	cream-white
Max. moisture absorption at +73°F/50% r.h.	% weight	0.1	< 0.1	0.1	0.1
Max. water absorption	% weight	0.1	< 0.1	0.1	0.2
Coefficient of sliding friction, dynamic against steel	μ	0.09–0.19	0.13–0.20	0.12–0.20	0.15–0.20
Mechanical properties					
Modulus of elasticity	psi	166,938	123,600	115,885	652,700
Tensile strength at +68°F	psi	2,755	2,031	2031	13,780
Shore-D Hardness		60	59	58	74
Physical and thermal properties					
Max. continuous application temperature	°F	+194	+194	+194	+320
Max. short-term application temperature	°F	+212	+212	+212	+464
Min. application temperature	°F	-58	-58	-58	-58
Thermal conductivity	W/m · K	0.30	0.32	0.30	0.24
Coefficient of thermal expansion (at +73 °F)	K <sup>-1</sup> · 10 <sup>-5</sup>	11	11	11	3
Electrical properties					
Specific volume resistance	Ωcm	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>
Surface resistance	Ω	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>

## Material resistance (at +68°F)

Chemical resistance	iglide® A160	iglide® B160	iglide® W160	iglide® V400
Alcohols	+	+	+	+
Hydrocarbons	+	+	+	+
Greases, oils without additives	+	+	+	+
Fuels	+ to 0	+ to 0	+ to 0	+
Diluted acids	+	+	+	+
Strong acids	+	+	+	+
Diluted alkalines	+	+	+	+
Strong alkalines	+	+	+	-
<b>Radiation Resistance [Gy] up to</b>	1 · 10 <sup>5</sup>	1 · 10 <sup>5</sup>	1 · 10 <sup>5</sup>	2 · 10 <sup>4</sup>

**+ resistant   0 conditionally resistant   - not resistant**

All data given at room temperature [+68 °F]

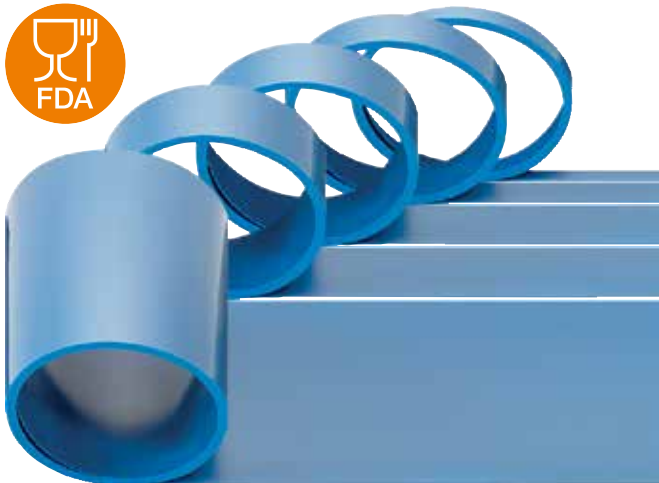


Unknown factors, temperatures, wet weather and many other ambient conditions impair the adhesion. It is therefore essential that the use of iglide® tribo-tape be tested under realistic conditions. We are happy to provide you with samples for tests. All recommendations, as well as suggestions regarding use that are made, are based on experience gained in practice and tests where the basic conditions cannot be applied to other conditions of use. They are therefore not binding and do not release the buyer from the obligation to carry out his/her own tests. We always recommend application-specific tests under real conditions of use.



### Limits of bonding with pressure sensitive adhesive tapes:

There are limits to the adhesive strength of the iglide® tribo-tapes equipped with a pressure-sensitive adhesive tape. In contrast to structural bonding, various environmental influences can affect the adhesive system and lead to detachment of the substrates. High-strength, permanently resilient adhesive joints can usually only be achieved with chemically reacting, one- and two-component adhesives. In these cases, adhesives, substrates and the pre-treatment of the substrates must be precisely matched to each other. The variety of possible combinations does not allow us to make specifications or recommendations here. We expressly point out that the pressure-sensitive adhesive tape of the igus® tribo-tape can only facilitate the assembly and fixing of the tape. Experience shows that the adhesive strength of the tape actually decreases over time. igus® assumes no liability for an adequate adhesive system based on the pressure-sensitive adhesive tape.



### Order key

Type	Dimensions [mm]	Options
<b>A160 - T - 005 - 0020 - G</b>		
iglide® material	Tape Thickness [mm] 5 = 0.5 mm Width [mm]	G = Optional self-adhesive back

The low-cost iglide® A160 tribo-tape has high wear resistance compared to similar, thin plastic products.



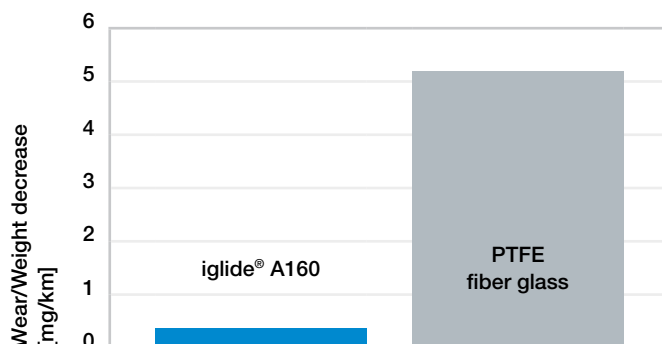
tribo-tape from iglide® A160 with adhesive back  
Temperature -40 °F up to +194 °F

### Dimensions [mm]

Part No. without adhesive back	Part No. with adhesive back	Material thickness without adhesive back +/-0.1	Material thickness with adhesive back +/-0.121	Width +/-1.0
A160-T-005-0020	A160-T-005-0020-G	0.5	0.71	20
A160-T-005-0050	A160-T-005-0050-G	0.5	0.71	50
A160-T-005-0100	A160-T-005-0100-G	0.5	0.71	100
A160-T-005-0500	A160-T-005-0500-G	0.5	0.71	500
A160-T-010-0500	A160-T-010-0500-G	1.0	1.21	500



Individual widths upon request  
Continuously from 10–500mm



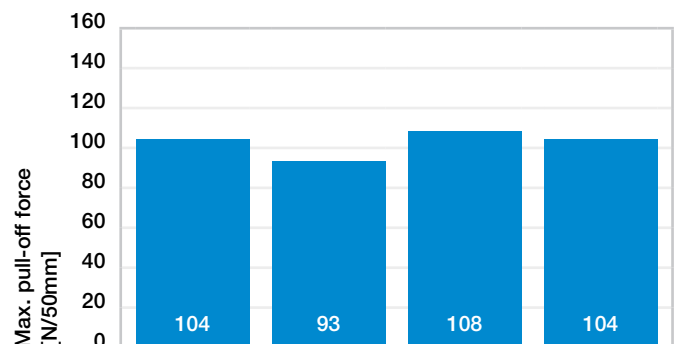
Linear wear against stainless steel pin (AISI 303)  
F = 2.25 lb, v = 31.5 fpm



### Cutting service

Design tribo-tape flexibly

► [www.igus.com/tribo-tape](http://www.igus.com/tribo-tape)



180° pull-off test after various exposure conditions



This material complies with EU directive 10/2011 and also with FDA (Food and Drug Administration) specifications for repeated contact with food.

# iglide® tribo-tape | Product range

For use in visible areas – iglide® B160



## Order key

Type	Dimensions [mm]	Options
<b>B160 - T - 005 - 0100 - G</b>		
iglide® material	Tape	Thickness [mm] 5 = 0.5 mm
		Width [mm]
		Adhesive back

G =  
Optional self-adhesive back

iglide® B160 offers improved wear resistance over iglide® A160. In addition its black color allows for design freedom when the part is visible and color is a concern.

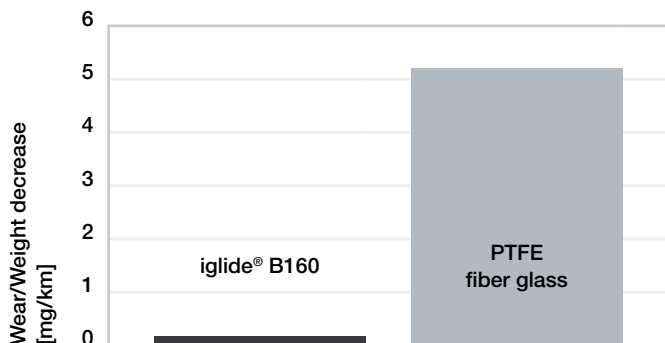
**i** tribo-tape from iglide® B160 with adhesive back  
Temperature -40 °F up to +194 °F

## Dimensions [mm]

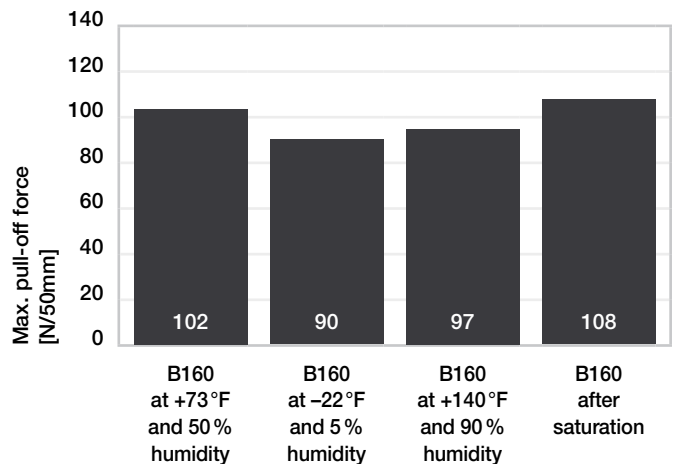
Part No. without adhesive back	Part No. with adhesive back	Material thickness without adhesive back +/-0.1	Material thickness with adhesive back +/-0.121	Width +/-1.0
B160-T-005-0020	B160-T-005-0020-G	0.5	0.71	20
B160-T-005-0050	B160-T-005-0050-G	0.5	0.71	50
B160-T-005-0100	B160-T-005-0100-G	0.5	0.71	100
B160-T-005-0500	B160-T-005-0500-G	0.5	0.71	500
B160-T-010-0500	B160-T-010-0500-G	1.0	1.21	500

**i** Individual widths upon request  
Continuously from 10–500mm

**✂** Cutting service  
Design tribo-tape flexibly  
► [www.igus.com/tribo-tape](http://www.igus.com/tribo-tape)



Linear wear against stainless steel pin (AISI 303)  
F = 2.25 lb, v = 31.5 fpm



180° pull-off test after various exposure conditions



### Order key

Type	Dimensions [mm]	Options
<b>W160 - T - 005 - 0020 - G</b>		
iglide® material	Tape	Thickness [mm] 5 = 0.5 mm
		Width [mm]
		Adhesive back

G =  
Optional self-adhesive back

With its white color and UV-stabilized additives, iglide® W160 tribo-tape offers even more design freedom.<sup>148)</sup>

**i** tribo-tape from iglide® A160 with adhesive back  
Temperature -40 °F up to +194 °F

### Dimensions [mm]

Part No. without adhesive back	Part No. with adhesive back	Material thickness without adhesive back +/-0.1	Material thickness with adhesive back +/-0.121	Width +/-1.0
W160-T-005-0020	W160-T-005-0020-G	0.5	0.71	20
W160-T-005-0050	W160-T-005-0050-G	0.5	0.71	50
W160-T-005-0100	W160-T-005-0100-G	0.5	0.71	100
W160-T-005-0500	W160-T-005-0500-G	0.5	0.71	500
W160-T-010-0500	W160-T-010-0500-G	1.0	1.21	500

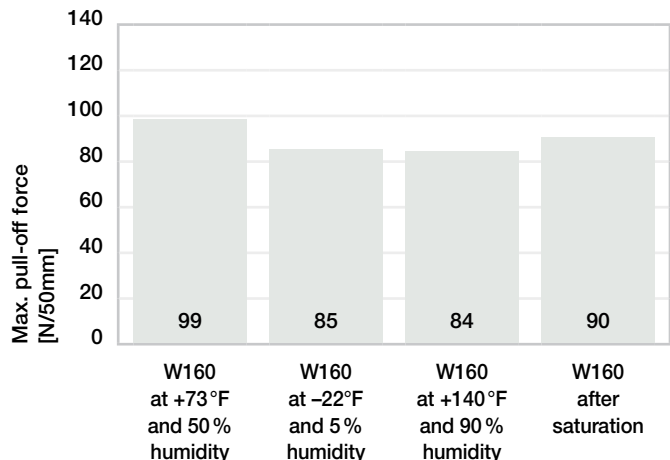
**i** Individual widths upon request  
Continuously from 10–500mm



Linear wear against stainless steel pin (AISI 303)  
F = 2.25 lb, v = 31.5 fpm

<sup>148)</sup> The original antibacterial version of the iglide® W160 material is no longer available due to a change in the Biocides Regulation. A new antibacterial version is being developed.

**i** Cutting service  
Design tribo-tape flexibly  
► [www.igus.com/tribo-tape](http://www.igus.com/tribo-tape)



180° pull-off test after various exposure conditions



## High media resistance – iglide® V400

**long  
life**



iglide® V400 tribo-tape is not only extremely wear-resistant but also extremely media and temperature-resistant. In fact, it has been proven in tests to be up to 10 times more wear-resistant than special products for machine beds.

### Order key

Type	Dimensions [mm]	Options
<b>V400 - T - 005 - 0120 - G</b>		
iglide® material	Tape	Thickness [mm] 5 = 0.5 mm
		Width [mm]
		Adhesive back

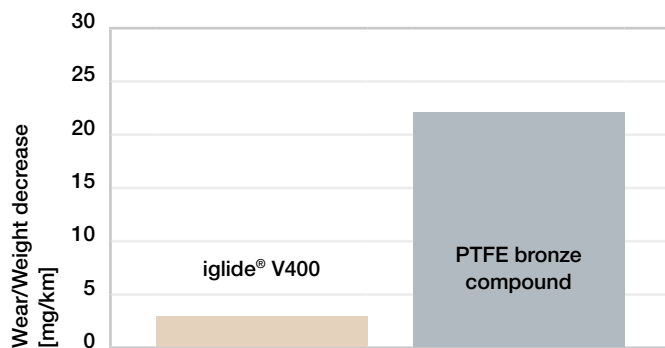
G =  
Optional self-adhesive back

**i** tribo-tape from iglide® B160 with adhesive back  
Temperature -40 °F up to +392 °F

### Dimensions [mm]—

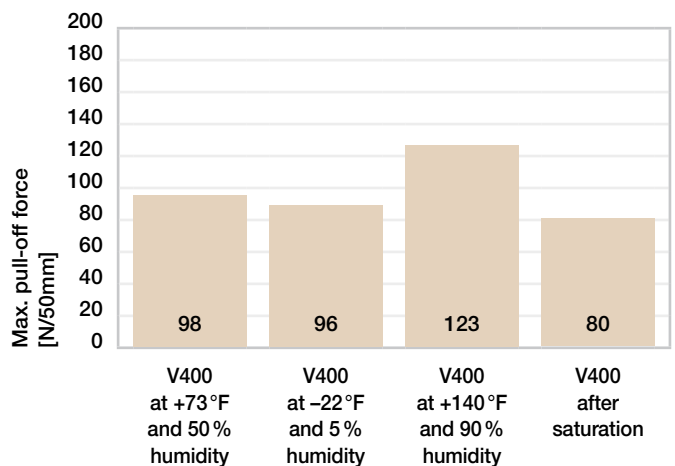
Part No.	Part No.	Material thickness	Material thickness	Width
without adhesive back	with adhesive back	without adhesive back	with adhesive back	+/-1.0
		+/-0.1	+/-0.121	
V400-T-005-0120	V400-T-005-0120-G	0.5	0.71	120

**i** Individual widths upon request  
Continuously from 10–120mm



Linear wear against stainless steel pin (AISI 303)  
F = 7.86 lbs, v = 1.64 fpm

**i** Cutting service  
Design tribo-tape flexibly  
► [www.igus.com/tribo-tape](http://www.igus.com/tribo-tape)



180° pull-off test after various exposure conditions