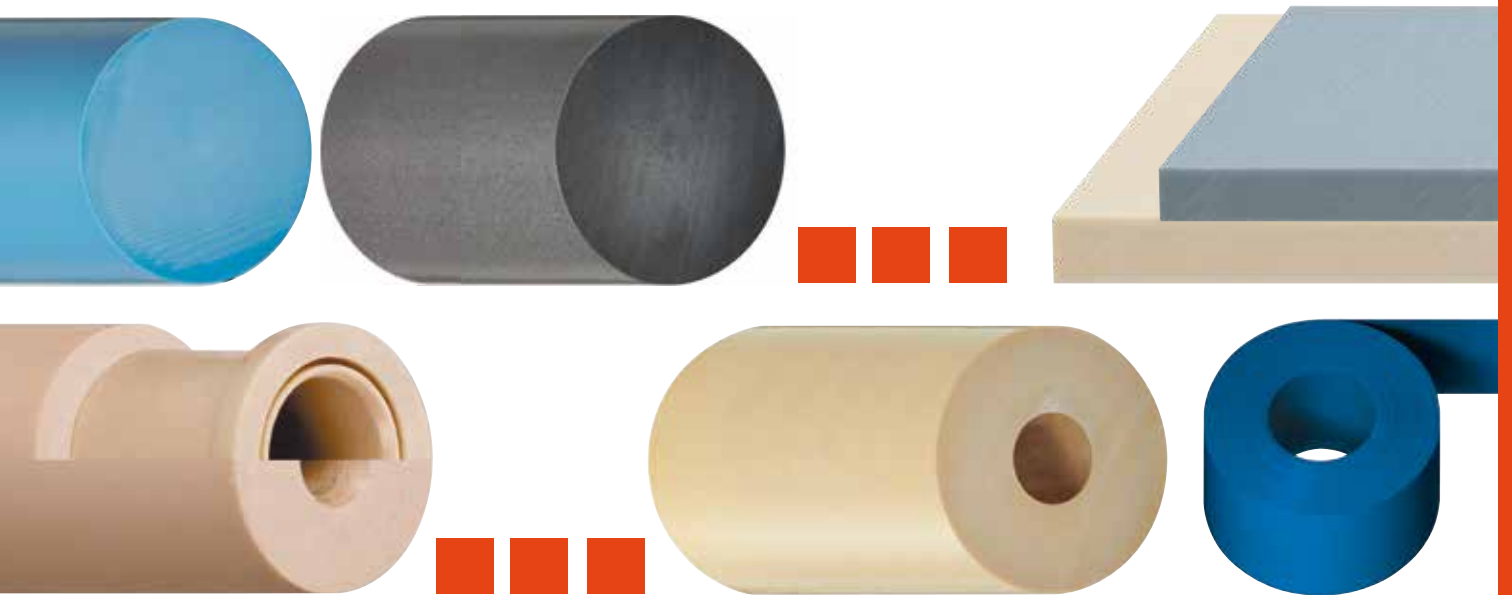


iglidur®

round bars, tubes,
plates and tapes



...plastics

iglidur® round bars – All-rounder



iglidur® M250:
Excellent vibration
dampening
► Page 618



iglidur® P210: Good
coefficients of friction and
wear on almost every shaft
► Page 618



iglidur® J4:
Wear resistant and cost-
effective
► Page 619



iglidur® GLW:
Low-cost material for high
quantities
► Page 619

New

iglidur® round bars – Endurance runner



iglidur® J260:
Ideal for plastic shafts
► Page 622



iglidur® R:
Low-cost
► Page 622



iglidur® J200:
Specially for aluminium
shafts
► page 623



iglidur® JB:
Extreme wear resistant
in black
► Page 623

iglidur® round bars – Endurance runner



iglidur® J:
The versatile endurance
runner
► Page 620



iglidur® W300:
The classic endurance
runner up to 30 MPa
► Page 620



iglidur® J3:
Specialist for pulsating
loads
► Page 621



iglidur® J350: Endurance
runner with high dimensional
stability at high temperature
► Page 621

iglidur® round material – For high temperatures



iglidur® X:
The chemical and
temperature specialist
► Page 624



iglidur® HSD350:
All-rounder suitable for
steam sterilisation
► Page 624

... – High media resistance



iglidur® H1 :
Endurance runner with
high media resistance
► page 625



iglidur® C500:
For extreme
ambient conditions
► Page 625

iglidur® round material – For contact with food



iglidur® A181: The food all-
rounder, compliant with FDA
and EC directive 10/2011
► Page 626



iglidur® A350: The FDA-
compliant endurance
runner at high temperatures
► Page 626



iglidur® A500: The media
and temperature specialist
in the food sector
► Page 627



iglidur® A180:
The food all-rounder
► Page 627

iglidur® round material – For contact with food



iglidur® A160: "Food"
material with high media
resistance up to +90°C
► Page 628



iglidur® UW160:
For contact with drinking
water
► Page 628



iglidur® T220:
For the tobacco industry
► Page 629

iglidur® round material – For special applications



iglidur® F2:
Used to prevent
electro-static charges
► Page 629



iglidur® J2:
Versatile and
cost-effective
► Page 630



iglidur® RW370:
Flame-retardant, according
to DIN EN 45545
► Page 630

iglidur® tubes



iglidur® J:
The versatile endurance
runner
► Page 631

Mechanical processing



speedicut:
Special parts fast,
machined to drawing
► Page 635

iglidur® plates



iglidur® J:
The versatile endurance
runner
► Page 632



iglidur® JB:
Extreme wear resistant
in black
► Page 633



iglidur® A350: The FDA-
compliant endurance runner
at higher temperatures
► Page 633

iglidur® Tribo-Tape



Material iglidur® A160:
FDA-compliant
► Page 640



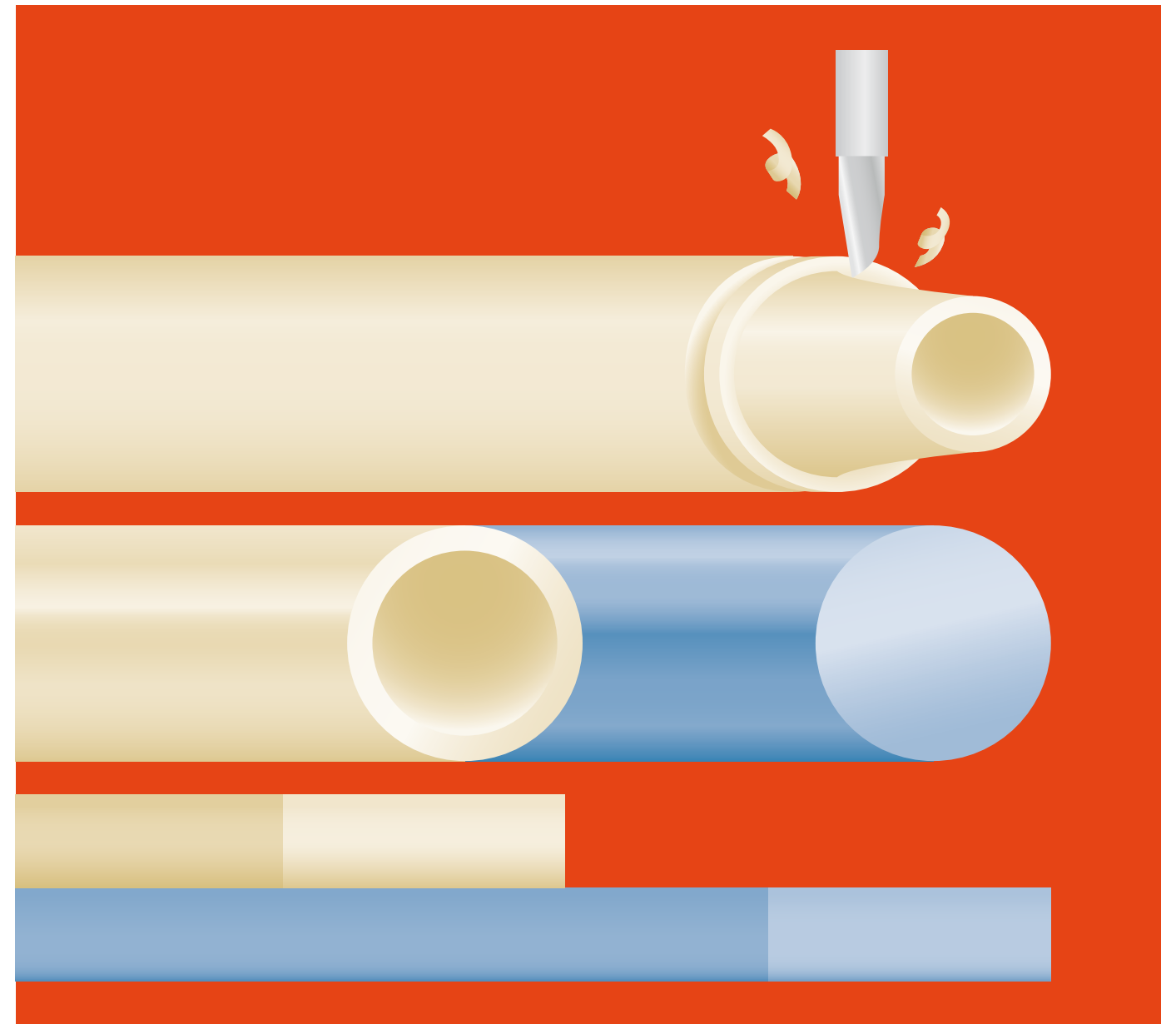
Material iglidur® B160:
For use in visible areas
► Page 641



Material iglidur® W160:
Lubrication-free Tribo-Tape
in white – hardly any wear
► Page 642



Material iglidur® V400:
Extremely high wear
resistance
► Page 643



iglidur® bar stock

iglidur® materials as round bars, tubes and plates

Fast and cost-effective

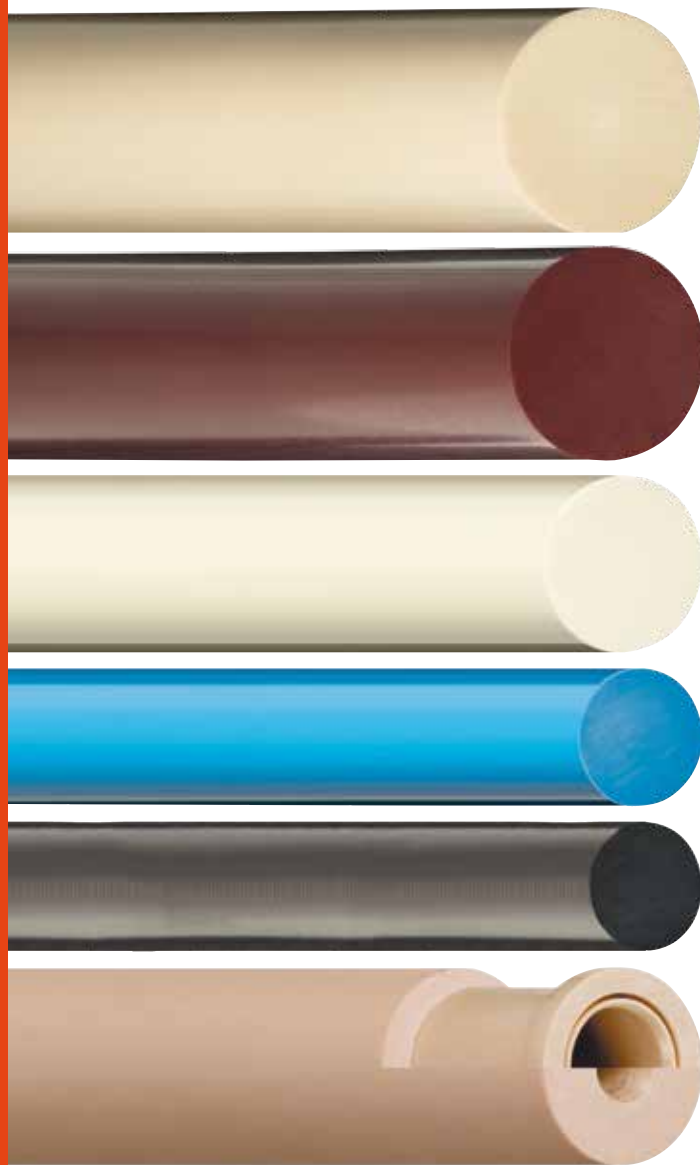
Cut to required size

Mechanical processing from a batch size of 1

Maintenance-free and calculable

Standard range from stock





Bar stocks made from technical plastic: iglidur® in one piece

iglidur® 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.

- iglidur® materials as round material from stock or mechanically ready-machined special components and special sizes in 3 to 5 days
- Lubrication and maintenance-free
- Easy to machine – ask for tips
- Tribologically optimised plastic bar stocks as round bars, tubes and plates
- Service life can now also be calculated for machined bearings made from iglidur® plastic bar stocks
- No minimum order value
- From batch size 1



Available from stock

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



Operation temperatures:

–50 °C up to +90 °C (standard iglidur® J)
–100 °C up to +250 °C (depending on material)



26 materials

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



igus® constantly expands its range of available materials and dimensions. Check the current stock online ► www.igus.eu/barstock



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



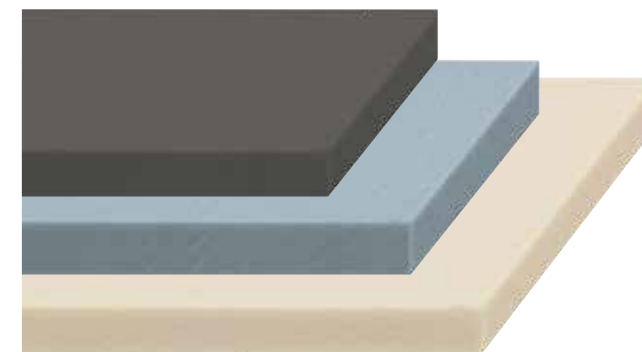
Service life calculation

► www.igus.eu/barstock-expert



iglidur® round bars

- Currently 26 iglidur® materials to choose from
 - Outer diameter 10–100 mm
 - Excellent wear rates and coefficients of friction
 - For special dimensions in small quantities
- From page 618



iglidur® plates

- Versatile application options
 - Plate thickness 2–40 mm
- From page 632



iglidur® tubes

- Large outer diameters 110–150 mm
 - Low wear against different shaft materials
- From page 631



speedicut: Machined parts and cutting

- Special parts according to customer request
 - Prototypes available in a matter of days
- From page 635

[illegible]

141) **Price index**



Low price category



Medium price category



Highest price category

HSD350	H1	C500	A181	A350	A500	A180	A160	UW160	T220	F2	J2	RW370	W160	B160	V400
										<					

iglidur® bar stocks | Material properties table

iglidur®	Unit	M250	P210	J4	GLW	J	W300	J3	J350	J260	R
General properties											
Density	[g/cm³]	1.14	1.40	1.48	1.36	1.49	1.24	1.42	1.44	1.35	1.39
Colour											
Max. moisture absorption at +23°C/50 % r.h.	[% weight]	1.4	0.3	0.3	1.3	0.3	1.3	0.3	0.3	0.2	0.2
Max. water absorption	[% weight]	7.6	0.5	1.3	5.5	1.3	6.5	1.3	1.6	0.4	1.1
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
pv value, max. (dry)	[MPa · m/s]	0.12	0.4	0.30	0.30	0.34	0.23	0.5	0.45	0.35	0.27
Mechanical properties											
Flexural modulus	[MPa]	2,700	2,500	2,350	7,700	2,400	3,500	2,700	2,000	2,200	1,950
Flexural strength at +20 °C	[MPa]	112	70	70	235	73	125	70	55	60	70
Compressive strength	[MPa]	52	50	55	74	60	61	60	60	50	68
Max. permissible surface pressure at +20 °C	[MPa]	20	50	35	80	35	60	45	60	40	23
Shore-D-Hardness		79	75	74	78	74	77	73	80	77	77
Physical and thermal properties											
Max. permissible application temperature, continuous	[°C]	+80	+100	+90	+100	+90	+90	+90	+180	+120	+90
Max. short-term application temperature	[°C]	+170	+160	+120	+160	+120	+180	+120	+220	+140	+110
Min. long-term application temperature	[°C]	–40	–40	–50	–40	–50	–40	–50	–100	–100	–50
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
Coefficient of thermal expansion at +23°C	[K ⁻¹ · 10 ⁻⁶]	10	8	10	17	10	9	13	7	13	11
Electrical properties											
Specific contact resistance	[Ωcm]	> 10 ¹³	> 10 ¹²	> 10 ¹³	> 10 ¹¹	> 10 ¹³	> 10 ¹³	> 10 ¹²	> 10 ¹³	> 10 ¹²	> 10 ¹²
Surface resistance	[Ω]	> 10 ¹¹	> 10 ¹¹	> 10 ¹³	> 10 ¹¹	> 10 ¹²	> 10 ¹²	> 10 ¹²	> 10 ¹⁰	> 10 ¹⁰	> 10 ¹²
Page		618	618	619	619	620	620	621	621	622	622

J200	JB	X	HSD350	H1	C500	A181	A350	A500	A180	A160	UW160	T220	F2	J2	RW370
1.72	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
															
0.2	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
0.7	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
0.11–0.17	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
0.3	0.34	1.32	0.3	0.80	0.7	0.31	0.40	0.28	0.31	0.25	0.22	0.28	0.31	0.23	1.2
2,800	2,400	8,100	2,150	2,800	3,000	1,913	2,000	3,600	2,300	1,151	1,349	1,800	7,418	3,605	2,997
58	73	170	67	55	100	48	110	140	88	19	22	65	93	101	100
43	60	100	44	78	110	60	78	118	78	37	32	55	61	77	129
23	35	150	30	80	110	31	60	120	28	15	15	40	47	46	75
70	74	85	77	77	81	76	76	83	76	60	60	76	72	n.s.	80
+90	+90	+250	+180	+200	+250	+90	+180	+250	+90	+90	+90	+100	+120	+90	+170
+120	+120	+315	+210	+240	+300	+110	+210	+300	+110	+100	+100	+160	+165	+110	+190
–50	–50	–100	–40	–40	–100	–50	–100	–100	–50	–50	–50	–40	–40	–50	–50
0.24	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.
8	10	5	7	6	9	11	8	9	11	11	18	11	5	7	n.s.
> 10 ⁸	> 10 ¹³	< 10 ⁵	> 10 ¹³	> 10 ¹²	> 10 ¹⁴	> 10 ¹²	> 10 ¹¹	> 10 ¹⁴	> 10 ¹²	> 10 ¹²	> 10 ¹²	> 10 ¹⁰	< 10 ⁹	> 10 ¹³	> 10 ¹²
> 10 ⁸	> 10 ¹²	< 10 ³	> 10 ¹⁴	> 10 ¹¹	> 10 ¹³	> 10 ¹²	> 10 ¹¹	> 10 ¹³	> 10 ¹¹	> 10 ¹²	> 10 ¹²	> 10 ¹⁰	< 10 ⁹	> 10 ¹²	> 10 ¹²
623	623	624	624	625	625	626	626	627	627	628	628	629	629	630	630

iglidur® round bars | Product range

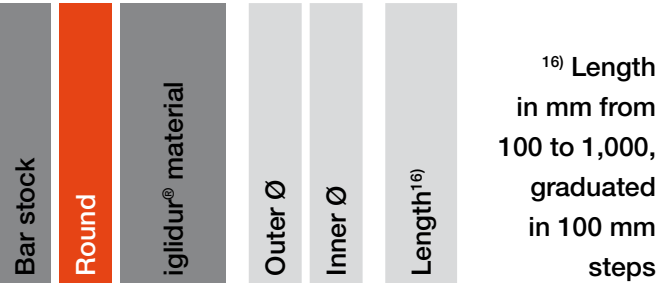
Excellent vibration dampening – iglidur® M250



Order key for round bars

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

SF R M250-30 00-500



Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRM250-4500-□ ¹⁶⁾
50	100–1,000	SFRM250-5000-□ ¹⁶⁾
55	100–1,000	SFRM250-5500-□ ¹⁶⁾
60	100–1,000	SFRM250-6000-□ ¹⁶⁾
65	100–1,000	SFRM250-6500-□ ¹⁶⁾
80	100–1,000	SFRM250-8000-□ ¹⁶⁾
100	100–1,000	SFRM250-10000-□ ¹⁶⁾

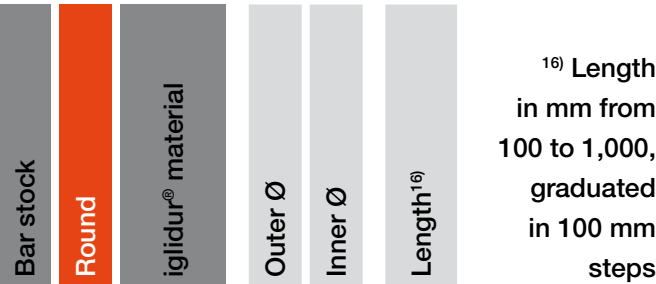
Good coefficients of friction and wear on almost every shaft – iglidur® P210



Order key for round bars

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

SF R P210-30 00-500



Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRP210-4500-□ ¹⁶⁾
50	100–1,000	SFRP210-5000-□ ¹⁶⁾
55	100–1,000	SFRP210-5500-□ ¹⁶⁾
60	100–1,000	SFRP210-6000-□ ¹⁶⁾
65	100–1,000	SFRP210-6500-□ ¹⁶⁾
80	100–1,000	SFRP210-8000-□ ¹⁶⁾
100	100–1,000	SFRP210-10000-□ ¹⁶⁾



Available from stock

Produced to special order

iglidur® round bars | Product range

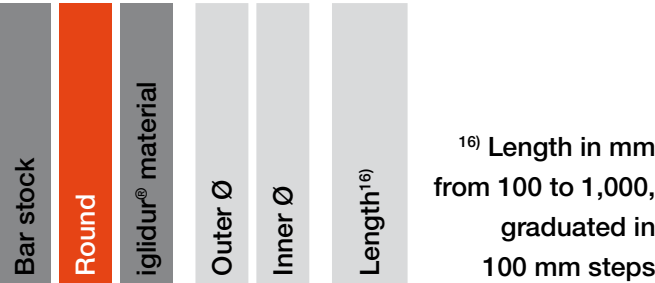
Wear resistant and cost-effective – iglidur® J4



Order key for round bars

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

SF R J4-30 00-500



Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRJ4-4500-□ ¹⁶⁾
50	100–1,000	SFRJ4-5000-□ ¹⁶⁾
55	100–1,000	SFRJ4-5500-□ ¹⁶⁾
60	100–1,000	SFRJ4-6000-□ ¹⁶⁾
65	100–1,000	SFRJ4-6500-□ ¹⁶⁾
80	100–1,000	SFRJ4-8000-□ ¹⁶⁾
100	100–1,000	SFRJ4-10000-□ ¹⁶⁾

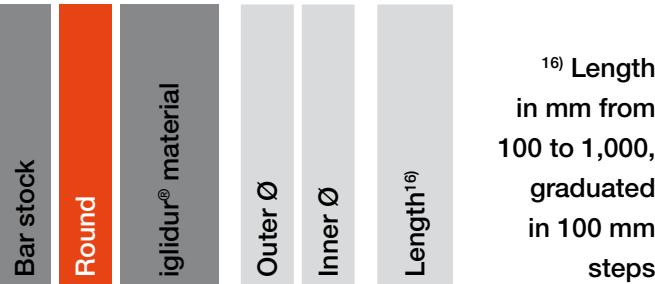
Low-cost material for high quantities – iglidur® GLW



Order key for round bars

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

SF R GLW-30 00-500



Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRGLW-4500-□ ¹⁶⁾
50	100–1,000	SFRGLW-5000-□ ¹⁶⁾
55	100–1,000	SFRGLW-5500-□ ¹⁶⁾
60	100–1,000	SFRGLW-6000-□ ¹⁶⁾
65	100–1,000	SFRGLW-6500-□ ¹⁶⁾
80	100–1,000	SFRGLW-8000-□ ¹⁶⁾
100	100–1,000	SFRGLW-10000-□ ¹⁶⁾



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

iglidur® round bars | Product range

The versatile endurance runner – iglidur® J



Order key for round bars

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

SF R J -30 00-500

Bar stock	Round	iglidur® material	Outer Ø	Inner Ø	Length ¹⁶⁾
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¹⁶⁾ Length in mm
from 100 to 1,000,
graduated in
100 mm steps

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRJ-4500-□ ¹⁶⁾
50	100–1,000	SFRJ-5000-□ ¹⁶⁾
55	100–1,000	SFRJ-5500-□ ¹⁶⁾
60	100–1,000	SFRJ-6000-□ ¹⁶⁾
65	100–1,000	SFRJ-6500-□ ¹⁶⁾
80	100–1,000	SFRJ-8000-□ ¹⁶⁾
100	100–1,000	SFRJ-10000-□ ¹⁶⁾

The classic endurance runner up to 30 MPa – iglidur® W300



Order key for round bars

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

SF R W300-30 00-500

Bar stock	Round	iglidur® material	Outer Ø	Inner Ø	Length ¹⁶⁾
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¹⁶⁾ Length
in mm from
100 to 1,000,
graduated
in 100 mm
steps

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRW-4500-□ ¹⁶⁾
50	100–1,000	SFRW-5000-□ ¹⁶⁾
55	100–1,000	SFRW-5500-□ ¹⁶⁾
60	100–1,000	SFRW-6000-□ ¹⁶⁾
65	100–1,000	SFRW-6500-□ ¹⁶⁾
80	100–1,000	SFRW-8000-□ ¹⁶⁾
100	100–1,000	SFRW-10000-□ ¹⁶⁾



Available from stock

Produced to special order

iglidur® round bars | Product range

Specialist for pulsating loads – iglidur® J3



Order key for round bars

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

SF R J3-30 00-500

Bar stock	Round	iglidur® material	Outer Ø	Inner Ø	Length ¹⁶⁾
-----------	-------	-------------------	---------	---------	-----------------------

¹⁶⁾ Length in mm
from 100 to 1,000,
graduated in
100 mm steps

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRJ3-4500-□ ¹⁶⁾
50	100–1,000	SFRJ3-5000-□ ¹⁶⁾
55	100–1,000	SFRJ3-5500-□ ¹⁶⁾
60	100–1,000	SFRJ3-6000-□ ¹⁶⁾
65	100–1,000	SFRJ3-6500-□ ¹⁶⁾
80	100–1,000	SFRJ3-8000-□ ¹⁶⁾
100	100–1,000	SFRJ3-10000-□ ¹⁶⁾

Endurance runner with high dimensional stability at high temperature – iglidur® J350



Order key for round bars

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

SF R J350-30 00-500

Bar stock	Round	iglidur® material	Outer Ø	Inner Ø	Length ¹⁶⁾
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¹⁶⁾ Length
in mm from
100 to 1,000,
graduated
in 100 mm
steps

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRJ350-4500-□ ¹⁶⁾
50	100–1,000	SFRJ350-5000-□ ¹⁶⁾
55	100–1,000	SFRJ350-5500-□ ¹⁶⁾
60	100–1,000	SFRJ350-6000-□ ¹⁶⁾
65	100–1,000	SFRJ350-6500-□ ¹⁶⁾
80	100–1,000	SFRJ350-8000-□ ¹⁶⁾
100	100–1,000	SFRJ350-10000-□ ¹⁶⁾



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

iglidur® round bars | Product range

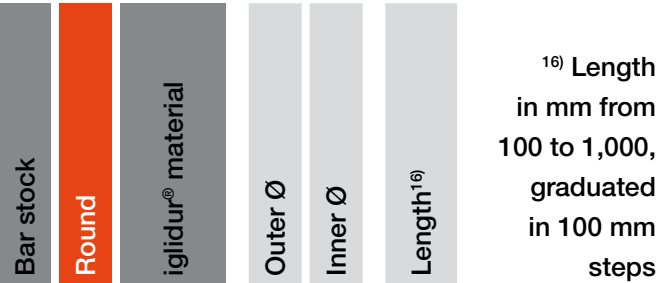
Ideal for plastic shafts – iglidur® J260



Order key for round bars

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

SF R J260 -30 00-500



Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRJ260-4500-□ ¹⁶⁾
50	100–1,000	SFRJ260-5000-□ ¹⁶⁾
55	100–1,000	SFRJ260-5500-□ ¹⁶⁾
60	100–1,000	SFRJ260-6000-□ ¹⁶⁾
65	100–1,000	SFRJ260-6500-□ ¹⁶⁾
80	100–1,000	SFRJ260-8000-□ ¹⁶⁾
100	100–1,000	SFRJ260-10000-□ ¹⁶⁾

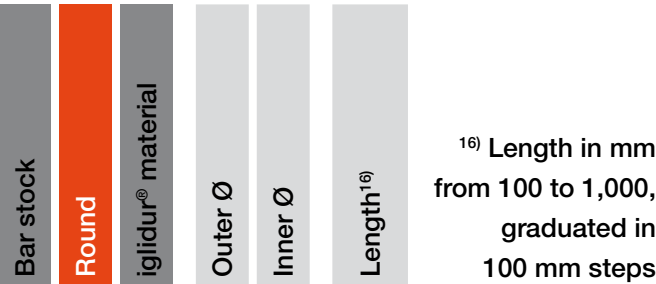
Low-cost – iglidur® R



Order key for round bars

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

SF R R -30 00-500



Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRR-4500-□ ¹⁶⁾
50	100–1,000	SFRR-5000-□ ¹⁶⁾
55	100–1,000	SFRR-5500-□ ¹⁶⁾
60	100–1,000	SFRR-6000-□ ¹⁶⁾
65	100–1,000	SFRR-6500-□ ¹⁶⁾
80	100–1,000	SFRR-8000-□ ¹⁶⁾
100	100–1,000	SFRR-10000-□ ¹⁶⁾



Available from stock
Produced to special order

iglidur® round bars | Product range

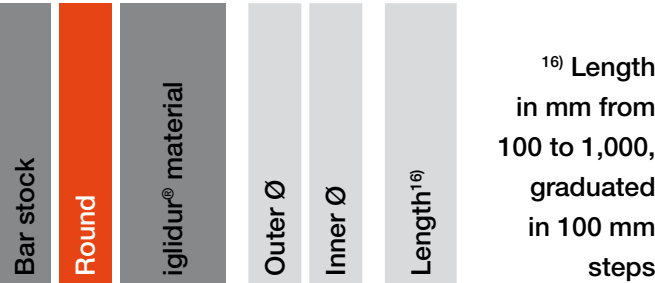
Specially for aluminium shafts – iglidur® J200



Order key for round bars

Type	Dimensions [mm]
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SF R J200 -30 00-500



Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRJ200-4500-□ ¹⁶⁾
50	100–1,000	SFRJ200-5000-□ ¹⁶⁾
55	100–1,000	SFRJ200-5500-□ ¹⁶⁾
60	100–1,000	SFRJ200-6000-□ ¹⁶⁾
65	100–1,000	SFRJ200-6500-□ ¹⁶⁾
80	100–1,000	SFRJ200-8000-□ ¹⁶⁾
100	100–1,000	SFRJ200-10000-□ ¹⁶⁾

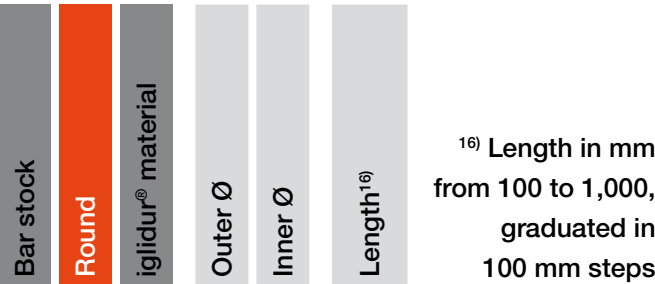
Extreme wear resistant in black – iglidur® JB



Order key for round bars

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

SF R JB-30 00-500



Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRJB-4500-□ ¹⁶⁾
50	100–1,000	SFRJB-5000-□ ¹⁶⁾
55	100–1,000	SFRJB-5500-□ ¹⁶⁾
60	100–1,000	SFRJB-6000-□ ¹⁶⁾
65	100–1,000	SFRJB-6500-□ ¹⁶⁾
80	100–1,000	SFRJB-8000-□ ¹⁶⁾
100	100–1,000	SFRJB-10000-□ ¹⁶⁾



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iglidur® round bars | Product range

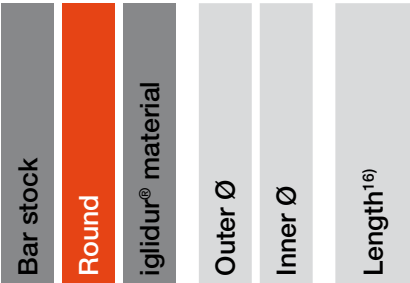
The chemical and temperature specialist – iglidur® X



Order key for round bars

Type	Dimensions [mm]
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SF R X -30 00-500



¹⁶⁾ Length in mm
from 100 to 1,000,
graduated in
100 mm steps

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRX-4500-□ ¹⁶⁾
50	100–1,000	SFRX-5000-□ ¹⁶⁾
55	100–1,000	SFRX-5500-□ ¹⁶⁾
60	100–1,000	SFRX-6000-□ ¹⁶⁾
65	100–1,000	SFRX-6500-□ ¹⁶⁾
80	100–1,000	SFRX-8000-□ ¹⁶⁾
100	100–1,000	SFRX-10000-□ ¹⁶⁾

All-rounder suitable for steam sterilisation – iglidur® HSD350



Order key for round bars

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

SF R HSD350-30 00-500



¹⁶⁾ Length
in mm from
100 to 1,000,
graduated
in 100 mm
steps

Dimensions [mm]

Ø	Lengths ¹⁶⁾	Part No.
10	100–1,000	SFRHSD350-1000-□ ¹⁶⁾
15	100–1,000	SFRHSD350-1500-□ ¹⁶⁾
20	100–1,000	SFRHSD350-2000-□ ¹⁶⁾
25	100–1,000	SFRHSD350-2500-□ ¹⁶⁾
30	100–1,000	SFRHSD350-3000-□ ¹⁶⁾
35	100–1,000	SFRHSD350-3500-□ ¹⁶⁾
40	100–1,000	SFRHSD350-4000-□ ¹⁶⁾

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRHSD350-4500-□ ¹⁶⁾
50	100–1,000	SFRHSD350-5000-□ ¹⁶⁾
55	100–1,000	SFRHSD350-5500-□ ¹⁶⁾
60	100–1,000	SFRHSD350-6000-□ ¹⁶⁾
65	100–1,000	SFRHSD350-6500-□ ¹⁶⁾
80	100–1,000	SFRHSD350-8000-□ ¹⁶⁾
100	100–1,000	SFRHSD350-10000-□ ¹⁶⁾



Available from stock

Produced to special order

iglidur® round bars | Product range

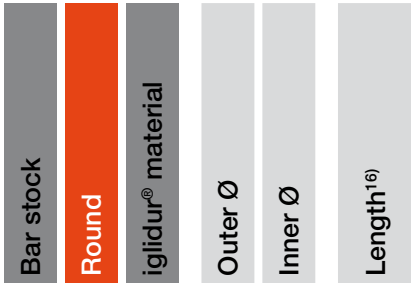
Endurance runner with high media resistance – iglidur® H1



Order key for round bars

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

SF R H1-30 00-500



¹⁶⁾ Length in mm
from 100 to 1,000,
graduated in
100 mm steps

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRH1-4500-□ ¹⁶⁾
50	100–1,000	SFRH1-5000-□ ¹⁶⁾
55	100–1,000	SFRH1-5500-□ ¹⁶⁾
60	100–1,000	SFRH1-6000-□ ¹⁶⁾
65	100–1,000	SFRH1-6500-□ ¹⁶⁾
80	100–1,000	SFRH1-8000-□ ¹⁶⁾
100	100–1,000	SFRH1-10000-□ ¹⁶⁾

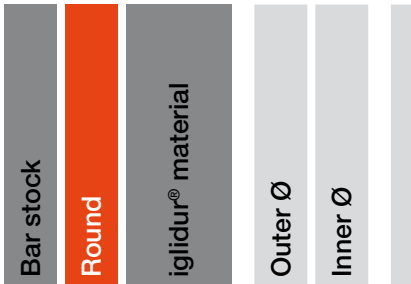
For extreme ambient conditions – iglidur® C500



Order key for round bars

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

SF R C500-30 00-500



¹⁶⁾ Length
in mm from
100 to 1,000,
graduated
in 100 mm
steps

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRC500-4500-□ ¹⁶⁾
50	100–1,000	SFRC500-5000-□ ¹⁶⁾
55	100–1,000	SFRC500-5500-□ ¹⁶⁾
60	100–1,000	SFRC500-6000-□ ¹⁶⁾
65	100–1,000	SFRC500-6500-□ ¹⁶⁾
80	100–1,000	SFRC500-8000-□ ¹⁶⁾
100	100–1,000	SFRC500-10000-□ ¹⁶⁾



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iglidur® round bars | Product range

The food all-rounder, compliant with FDA-compliant and EC directive 10/2011 – iglidur® A181



Order key for round bars

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

SF R A181-30 00-500

Bar stock	Round	iglidur® material	Outer Ø	Inner Ø	Length ¹⁶⁾
¹⁶⁾ Length in mm from 100 to 1,000, graduated in 100 mm steps					

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRA181-4500-□ ¹⁶⁾
50	100–1,000	SFRA181-5000-□ ¹⁶⁾
55	100–1,000	SFRA181-5500-□ ¹⁶⁾
60	100–1,000	SFRA181-6000-□ ¹⁶⁾
65	100–1,000	SFRA181-6500-□ ¹⁶⁾
80	100–1,000	SFRA181-8000-□ ¹⁶⁾
100	100–1,000	SFRA181-10000-□ ¹⁶⁾

The FDA-compliant endurance runner at high temperatures – iglidur® A350



Order key for round bars

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

SF R A350-30 00-500

Bar stock	Round	iglidur® material	Outer Ø	Inner Ø	Length ¹⁶⁾
¹⁶⁾ Length in mm from 100 to 1,000, graduated in 100 mm steps					

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRA350-4500-□ ¹⁶⁾
50	100–1,000	SFRA350-5000-□ ¹⁶⁾
55	100–1,000	SFRA350-5500-□ ¹⁶⁾
60	100–1,000	SFRA350-6000-□ ¹⁶⁾
65	100–1,000	SFRA350-6500-□ ¹⁶⁾
80	100–1,000	SFRA350-8000-□ ¹⁶⁾
100	100–1,000	SFRA350-10000-□ ¹⁶⁾

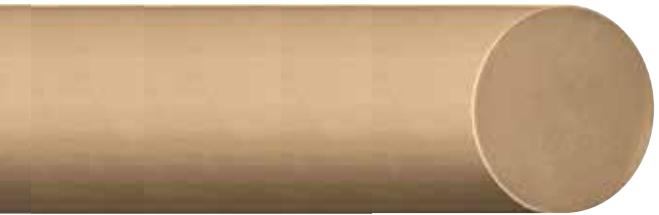


Available from stock

Produced to special order

iglidur® round bars | Product range

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



Order key for round bars

Type	Dimensions [mm]
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SF R A500-30 00-500

Bar stock	Round	iglidur® material	Outer Ø	Inner Ø	Length ¹⁶⁾
¹⁶⁾ Length in mm from 100 to 1,000, graduated in 100 mm steps					

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRA500-4500-□ ¹⁶⁾
50	100–1,000	SFRA500-5000-□ ¹⁶⁾
55	100–1,000	SFRA500-5500-□ ¹⁶⁾
60	100–1,000	SFRA500-6000-□ ¹⁶⁾
65	100–1,000	SFRA500-6500-□ ¹⁶⁾
80	100–1,000	SFRA500-8000-□ ¹⁶⁾
100	100–1,000	SFRA500-10000-□ ¹⁶⁾

The food all-rounder – iglidur® A180



Order key for round bars

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

SF R A180-30 00-500

Bar stock	Round	iglidur® material	Outer Ø	Inner Ø	Length ¹⁶⁾
¹⁶⁾ Length in mm from 100 to 1,000, graduated in 100 mm steps					

Dimensions [mm]

Ø	Lengths ¹⁶⁾	Part No.
10	100–1,000	SFRA180-1000-□ ¹⁶⁾
15	100–1,000	SFRA180-1500-□ ¹⁶⁾
20	100–1,000	SFRA180-2000-□ ¹⁶⁾
25	100–1,000	SFRA180-2500-□ ¹⁶⁾
30	100–1,000	SFRA180-3000-□ ¹⁶⁾
35	100–1,000	SFRA180-3500-□ ¹⁶⁾
40	100–1,000	SFRA180-4000-□ ¹⁶⁾

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRA180-4500-□ ¹⁶⁾
50	100–1,000	SFRA180-5000-□ ¹⁶⁾
55	100–1,000	SFRA180-5500-□ ¹⁶⁾
60	100–1,000	SFRA180-6000-□ ¹⁶⁾
65	100–1,000	SFRA180-6500-□ ¹⁶⁾
80	100–1,000	SFRA180-8000-□ ¹⁶⁾
100	100–1,000	SFRA180-10000-□ ¹⁶⁾



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iglidur® round bars | Product range

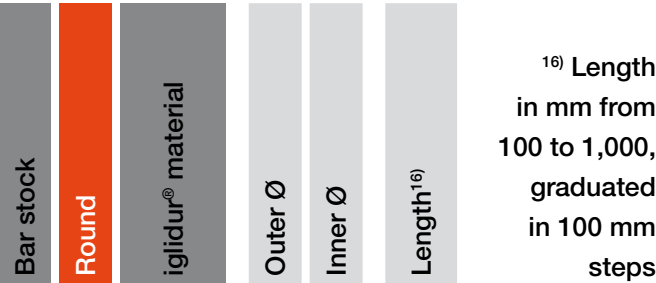
"Food" material with high media resistance up to +90°C – iglidur® A160



Order key for round bars

Type	Dimensions [mm]
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SF R A160-30 00-500



Ø	Lengths ¹⁶⁾	Part No.
10	100–1,000	SFRA160-1000-□ ¹⁶⁾
15	100–1,000	SFRA160-1500-□ ¹⁶⁾
20	100–1,000	SFRA160-2000-□ ¹⁶⁾
25	100–1,000	SFRA160-2500-□ ¹⁶⁾
30	100–1,000	SFRA160-3000-□ ¹⁶⁾
35	100–1,000	SFRA160-3500-□ ¹⁶⁾
40	100–1,000	SFRA160-4000-□ ¹⁶⁾
45	100–1,000	SFRA160-4500-□ ¹⁶⁾
50	100–1,000	SFRA160-5000-□ ¹⁶⁾
55	100–1,000	SFRA160-5500-□ ¹⁶⁾
60	100–1,000	SFRA160-6000-□ ¹⁶⁾
65	100–1,000	SFRA160-6500-□ ¹⁶⁾
80	100–1,000	SFRA160-8000-□ ¹⁶⁾
100	100–1,000	SFRA160-10000-□ ¹⁶⁾

Dimensions [mm]

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

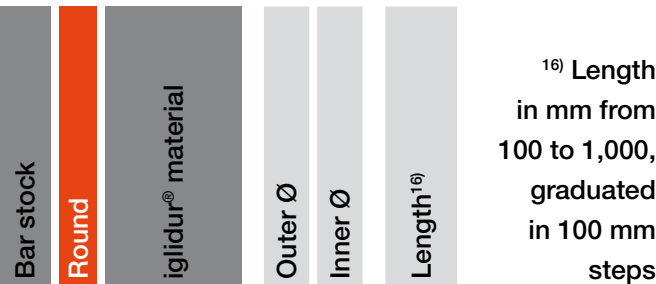
For contact with drinking water – iglidur® UW160



Order key for round bars

Type	Dimensions [mm]
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SF R UW160-30 00-500



Ø	Lengths ¹⁶⁾	Part No.
10	100–1,000	SFRUW160-1000-□ ¹⁶⁾
15	100–1,000	SFRUW160-1500-□ ¹⁶⁾
20	100–1,000	SFRUW160-2000-□ ¹⁶⁾
25	100–1,000	SFRUW160-2500-□ ¹⁶⁾
30	100–1,000	SFRUW160-3000-□ ¹⁶⁾
35	100–1,000	SFRUW160-3500-□ ¹⁶⁾
40	100–1,000	SFRUW160-4000-□ ¹⁶⁾
45	100–1,000	SFRUW160-4500-□ ¹⁶⁾
50	100–1,000	SFRUW160-5000-□ ¹⁶⁾
55	100–1,000	SFRUW160-5500-□ ¹⁶⁾
60	100–1,000	SFRUW160-6000-□ ¹⁶⁾
65	100–1,000	SFRUW160-6500-□ ¹⁶⁾
80	100–1,000	SFRUW160-8000-□ ¹⁶⁾
100	100–1,000	SFRUW160-10000-□ ¹⁶⁾

Dimensions [mm]

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



Available from stock

Produced to special order

iglidur® round bars | Product range

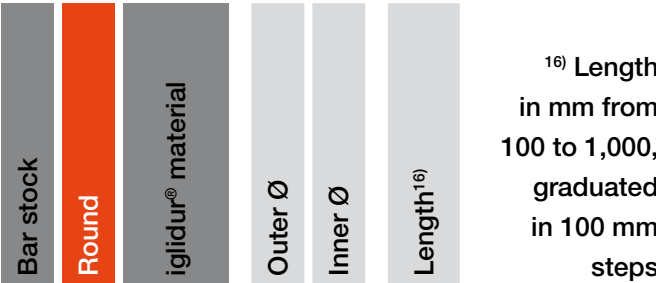
For the tobacco industry – iglidur® T220



Order key for round bars

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

SF R T220-30 00-500



Dimensions [mm]

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

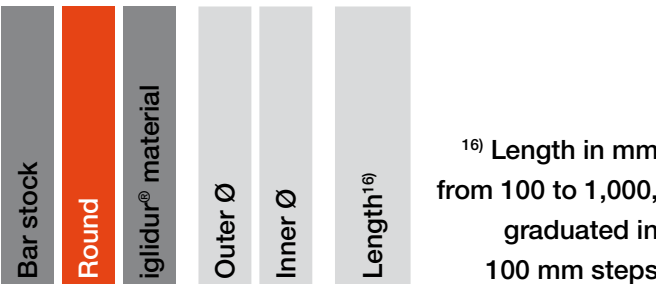
Used to prevent electro-static charges – iglidur® F2



Order key for round bars

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

SF R F2-30 00-500



Dimensions [mm]

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



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

iglidur® round bars | Product range

Versatile and cost-effective – iglidur® J2



Order key for round bars

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

SF R J2 -30 00 -500

Bar stock

Round

iglidur® material

Outer Ø

Inner Ø

Length¹⁶⁾

¹⁶⁾ Length in mm from 100 to 1,000, graduated in 100 mm steps

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRJ2-4500-□ ¹⁶⁾
50	100–1,000	SFRJ2-5000-□ ¹⁶⁾
55	100–1,000	SFRJ2-5500-□ ¹⁶⁾
60	100–1,000	SFRJ2-6000-□ ¹⁶⁾
65	100–1,000	SFRJ2-6500-□ ¹⁶⁾
80	100–1,000	SFRJ2-8000-□ ¹⁶⁾
100	100–1,000	SFRJ2-10000-□ ¹⁶⁾

Flame-retardant, according to DIN EN 45545 – iglidur® RW370



Order key for round bars

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

SF R RW370 -30 00 -500

Bar stock

Round

iglidur® material

Outer Ø

Inner Ø

Length¹⁶⁾

¹⁶⁾ Length in mm from 100 to 1,000, graduated in 100 mm steps

Dimensions [mm]

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

Ø	Lengths ¹⁶⁾	Part No.
45	100–1,000	SFRRW370-4500-□ ¹⁶⁾
50	100–1,000	SFRRW370-5000-□ ¹⁶⁾
55	100–1,000	SFRRW370-5500-□ ¹⁶⁾
60	100–1,000	SFRRW370-6000-□ ¹⁶⁾
65	100–1,000	SFRRW370-6500-□ ¹⁶⁾
80	100–1,000	SFRRW370-8000-□ ¹⁶⁾
100	100–1,000	SFRRW370-10000-□ ¹⁶⁾

Available from stock
Produced to special order

iglidur® round bars and tubes | Product range

The versatile endurance runner – iglidur® J



Order key for tubes

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

SF T J -30 00 -500

Bar stock

Tube

iglidur® material

Outer Ø

Inner Ø

Length¹⁶⁾

¹⁶⁾ Length in mm from 100 to 1,000, graduated in 100 mm steps

Dimensions [mm]

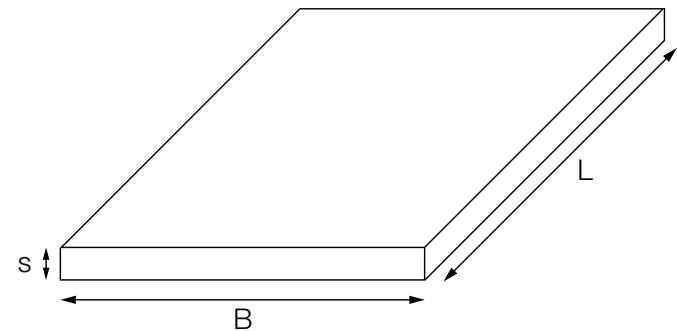
Inner Ø	Inner diameter tolerance	Outer Ø	Outer diameter tolerance	Length ¹⁶⁾	Part No.
70	–2.0 / –6.5	110	+1.5 / +4.5	100–1,000	SFTJ-11070
70	–2.0 / –6.5	125	+1.5 / –2.0	100–1,000	SFTJ-12570
100	–2.0 / –6.5	150	+1.5 / +4.5	100–1,000	SFTJ-150100



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

iglidur® plates | Product range

The versatile endurance runner – iglidur® J



Order key for plates

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

SF P J -02-500-240

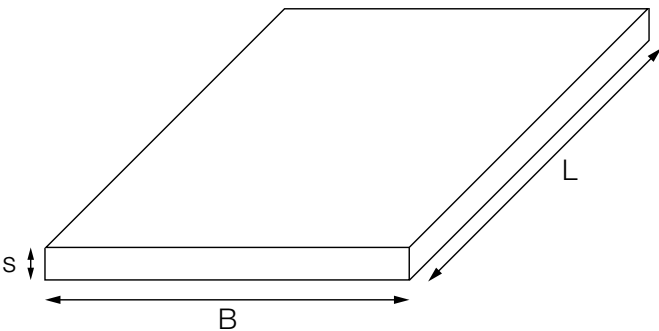
Bar stock	Plate	iglidur® material	Material thickness	Length	Width
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Dimensions (L x W)	Material thickness s	Part No.
500x240	2 / 4 / 6	SFPJ-□-500-240
500x300	10 / 15 / 20 / 25 / 30 / 40	SFPJ-□-500-300
500x500	2 / 4 / 6	SFPJ-□-500-500
500x610	10 / 15 / 20 / 25 / 30 / 40	SFPJ-□-500-610
1,000x500	2 / 4 / 6	SFPJ-□-1000-500
1,000x610	10 / 15 / 20 / 25 / 30 / 40	SFPJ-□-1000-610
1,000x1,000	2 / 4 / 6	SFPJ-□-1000-1000

Tolerances	
Material thickness	Tolerance
2	+0.000 +0.200
4	+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

iglidur® plates | Product range

Extreme wear resistant in black – iglidur® JB



Order key for plates

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

SF P J -02-500-240

Bar stock	Plate	iglidur® material	Material thickness	Length	Width
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Dimensions (L x W)	Material thickness s	Part No.
500x300	10 / 25	SFPJB-□-500-300
500x610	10 / 25	SFPJB-□-500-610
1,000x610	10 / 25	SFPJB-□-1000-610

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

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



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

Tolerances	
Material thickness	Tolerance
15	+0.300 +1.500
20	+0.300 +1.500
25	+0.300 +1.500

iglidur® bar stock | Processing information

Processing information for iglidur® bar stock

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

- Use tools made from high-speed steels (HSS) and hard metal (HM)
- Always ensure the tools are extremely sharp and in perfect condition
- In view of the far greater thermal expansion compared to metals and the dimensional

changes caused by absorbed water, larger production tolerances are required for plastics than for metal parts

- 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

	Sawing	Turning	Milling	Drilling
Tool material	HM with alternate teeth or trapezoidal flat teeth	HSS	HSS	HSS
Clearance angle	5–30°	2–10°	2–30°	3–16°
Rake angle	0–15°	0–8°	0–15°	5–30°
Tooth pitch	2–14 mm	–	–	–
Setting angle	–	45–60°	–	–
Tip angle	–	–	–	90–130°
Cutting speed	max. 300 m/min.	100–500 m/min.	80–500 m/min.	20–200 m/min.
Feed rate	–	0.05–0.5 mm/rpm	0.02–0.3 mm/rpm	

Table: General processing information

Tempering

Interim tempering reduces inner tensions caused by the machining process and thus creates narrower tolerances. In the end, the optimum values depend on the volume of material machined, the machining parameters and the geometric design of the end product, and have to be determined by tests.

As the plastic has low thermal conductivity, the plastic bar stock has to be heated slowly. Where possible, the entire bar stock should be evenly heated. It is therefore important to achieve

the tempering temperatures indicated below over a period of 3 – 4 hours by slowly heating the part from room temperature. Depending on the thickness of the part, this tempering temperature should be maintained for 1 hour per cm of wall thickness.

If the machined part cools too quickly, tension can once again be induced in it. This is avoided by using a slow cooling process with a maximum reduction of +20 °C per hour until room temperature is reached.

Tempering temperature	iglidur® materials
+120 °C	A180, A181, J, J200, J2, J3, J4, R, UW160
+130 °C	J260
+130 °C	M250
+180 °C	F2, P210, T220, W300
+200 °C	A350, H1, J350
+220 °C	X ¹¹¹⁾

¹¹¹⁾ In the case of iglidur® X, the +220 °C per cm of wall thickness must be maintained for 2 hours.

iglidur® bar stock | Online tools & speedicut

Special parts fast, machined to drawing



Find & compare semi-finished products

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

► www.igus.eu/barstock-finder

Calculate service life of bar stocks

Quick calculation of the service life of your iglidur® bar stock.

► www.igus.eu/barstock-expert

speedicut – Special parts fast, machined to drawing

speedicut is the machining process of iglidur® bar stocks produced to your 3D model and specifications.

Before submitting an online request for the mechanical production of your desired geometric design, you can use the material finder or the service life calculation program to filter materials and find the right one for your application. If you would like our assistance in choosing the right material with the optimum friction and wear values, please do not hesitate to contact us.

We divide machining into two categories:

- Production of all custom geometric designs in the form of plain bearings, sliding elements and pads in line with your drawing and with the standard tolerances for plastics.
- Production of iglidur® plain bearings and thrust washers in custom dimensions in line with igus® standard tolerances. You do not need to create a drawing for this type of processing.

Speed: if required, we are able to produce small quantities within a matter of days. If you need prototypes for your urgent projects extremely quickly, please contact us.

Depending on their complexity and precision, our rapid delivery service can supply parts with a delivery time of as little as 3 days.

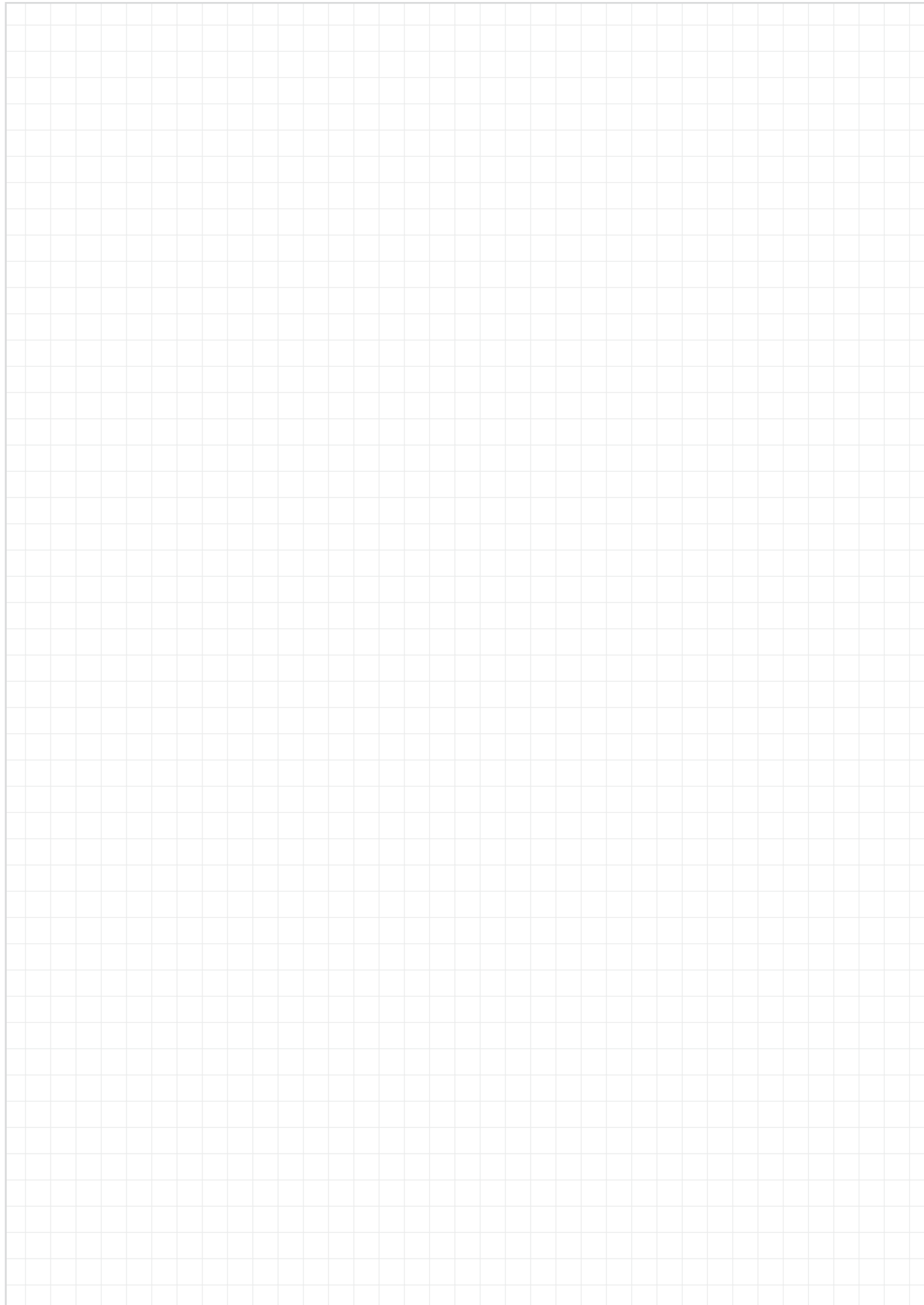
► www.igus.eu/speedicut

Form titled "Your requirements" with checkboxes for various conditions like "Maximum holding times in dry operation", "Low coefficients of friction", etc. It also includes input fields for "Max. static surface pressure (23 °C)" and "Upper long-term application temperature".

Form titled "iglidur® bar stock expert system" showing a "Results" table with columns for "Material", "Report", "KO criteria", and "Lifetime (h)". It includes a "Hints" section and a "Reset all values" button.

Form titled "Quick inquiry" with a text area for "Tell us what material you would like your part made in, and upload a 3D model (preferably a STEP file)". It includes a "Quantity" field and a "3D model of your part" section with file upload options.





iglidur® Tribo-Tape

Choice of 4 materials

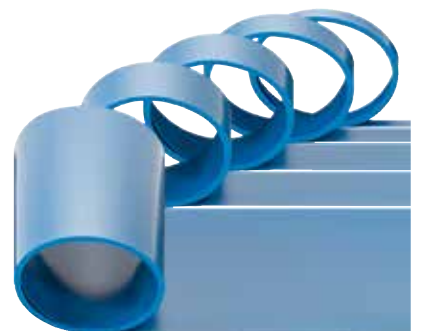
Lubrication and maintenance-free

Wear-resistant

Easy to cut

Can be glued

Standard widths from stock





Material: iglidur® A160

- Low coefficients of friction
- Wear resistance: ++
- Up to +90 °C
- Page 640

Material: iglidur® B160

- For use in visible areas
- Wear resistance: ++++
- Up to +90 °C
- Page 641

Material: iglidur® W160

- Antibacterial
- Wear resistance: +++
- Up to +90 °C
- Page 642

Material: iglidur® V400

- High media resistance
- Wear resistance: ++++
- Up to +200 °C
- Page 643

iglidur® off the reel: Tribo-Tape

igus® Tribo-Tape is designed for lining areas of wear and where frequent maintenance is required, an example is for machine beds etc. At just 0.5 mm thick (0.62 mm 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.

- Lubrication and maintenance-free
- Easy to cut
- For compact areas
- With or without self-adhesive back
- Standard width from stock
- Individual desired widths in continuous range from 20-500 mm



Available from stock

Detailed information about delivery time online.



Operation temperatures:

iglidur® A160: -50 °C up to +90 °C
iglidur® B160: -50 °C up to +90 °C
iglidur® W160: -50 °C up to +90 °C
iglidur® V400: -50 °C up to +200 °C

Differing temperatures with adhesive back (see product page)



Product film

► www.igus.eu/tape-film



Cutting service

Whether as a specially tailored by-the-metre product or freely designed pre-cut parts: We produce your desired product in desired width from our iglidur® Tribo-Tape. Talk to us!

► www.igus.eu/custom-tape



Material properties

General properties	Unit	iglidur® A160	iglidur® B160	iglidur® W160	iglidur® V400	Testing method
Density	g/cm³	1.00	1.00	0.95	1.51	
Colour		blue	black	white	cream white	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.1	0.1	0.1	0.1	DIN 53495
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						
Flexural modulus	MPa	1,151	852	799	4,500	DIN 53457
Tensile strength at +20 °C	MPa	19	14	14	95	DIN 53452
Shore-D hardness		60	59	58	74	DIN 53505
Physical and thermal properties						
Max. long-term application temperature	°C	+90	+90	+90	+200	
Max. short-term application temperature	°C	+100	+100	+100	+240	
Min. application temperature	°C	-50	-50	-50	-50	
Heat conductivity	W/m · K	0.30	0.32	0.30	0.24	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	K⁻¹ · 10⁻⁵	11	11	11	3	DIN 53752
Electrical properties						
Specific contact resistance	Ωcm	> 10¹²	> 10¹²	> 10¹²	> 10¹²	DIN IEC 93
Surface resistance	Ω	> 10¹²	> 10¹²	> 10¹²	> 10¹²	DIN 53482

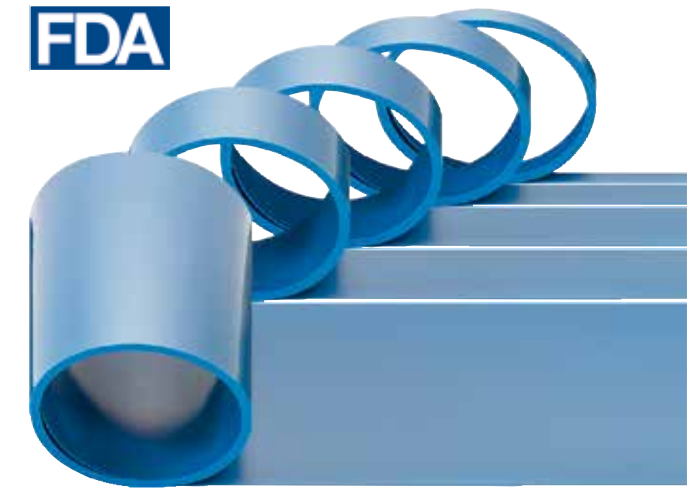
Table 01: Material properties table

Chemical resistance (at +20 °C)

Chemical resistance	iglidur® A160	iglidur® B160	iglidur® W160	iglidur® V400
Alcohol	+	+	+	+
Hydrocarbons	+	+	+	+
Greases, oils without additives	+	+	+	+
Fuels	+ to 0	+ to 0	+ to 0	+
Diluted acids	+	+	+	+
Strong acids	+	+	+	+
Diluted alkalines	+	+	+	+
Strong alkalines	+	+	+	-
Radiation Resistance [Gy] up to	1 · 10⁵	1 · 10⁵	1 · 10⁵	2 · 10⁴

+ resistant 0 conditionally resistant - not resistant

All data given at room temperature [+20 °C]



Order key

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

A160 - T - 005 - 0020 - G

iglidur® material	Tape	Thickness	Width	Adhesive back	G = with adhesive back
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Tribo-Tape from iglidur® A160 with adhesive back
Temperature –40 °C up to +90 °C

The low-cost iglidur® A160 tape has very high wear resistance compared to similar, thin plastic films.

Dimensions [mm]

Thickness	Thickness tolerance	Width	Width tolerance	Part No.	Part No. with adhesive back ¹¹²⁾
0.5	±0.1	20	±0.5	A160-T-005-0020	A160-T-005-0020-G
0.5	±0.1	50	±0.5	A160-T-005-0050	A160-T-005-0050-G
0.5	±0.1	100	±0.5	A160-T-005-0100	A160-T-005-0100-G
0.5	±0.1	500	±1.0	A160-T-005-0500	A160-T-005-0500-G
1.0	±0.1	500	±1.0	A160-T-010-0500	A160-T-010-0500-G

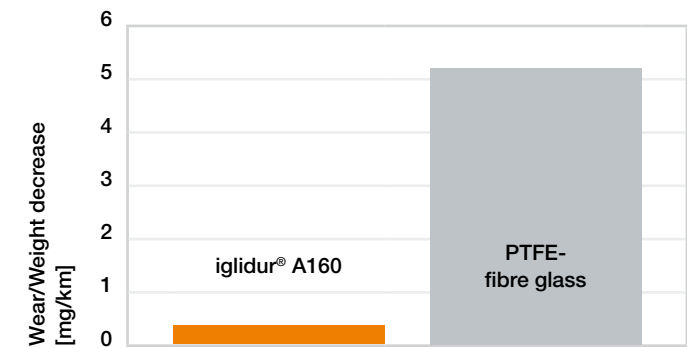
¹¹²⁾ Adhesive thickness tolerance: ±0.015 mm



Individual widths upon request
Continuously from 20–500 mm



Cutting service
Design Tribo-Tape flexibly
► www.igus.eu/custom-tape



Linear wear against stainless steel pin (1.4305)
F = 10 N, v = 9,600 mm/min



iglidur® A160 material complies with EC Directive 10/2011 EC and also with FDA (Food and Drug Administration) specifications for repeated contact with food.



Order key

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

B160 - T - 005 - 0020 - G

iglidur® material	Tape	Thickness	Width	Adhesive back	G = with adhesive back
-------------------	------	-----------	-------	---------------	------------------------------



Tribo-Tape from iglidur® B160 with adhesive back
Temperature –40 °C up to +90 °C

Especially where the iglidur® Tribo-Tape is a visible part, the new black option now offers even more creative freedom. Furthermore the wear resistance compared to variants made of iglidur® A160 has been improved once again.

Dimensions [mm]

Thickness	Thickness tolerance	Width	Width tolerance	Part No.	Part No. with adhesive back ¹¹²⁾
0.5	±0.1	20	±0.5	B160-T-005-0020	B160-T-005-0020-G
0.5	±0.1	50	±0.5	B160-T-005-0050	B160-T-005-0050-G
0.5	±0.1	100	±0.5	B160-T-005-0100	B160-T-005-0100-G
0.5	±0.1	500	±1.0	B160-T-005-0500	B160-T-005-0500-G

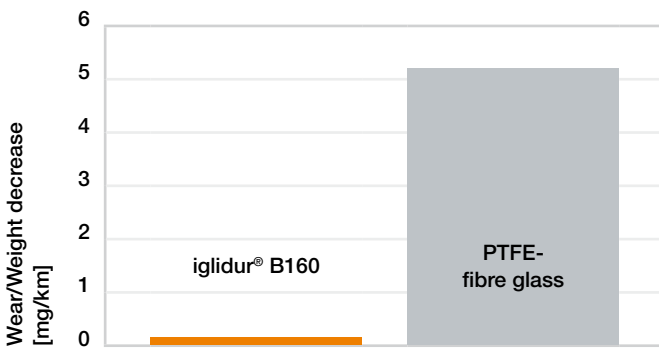
¹¹²⁾ Adhesive thickness tolerance: ±0.015 mm



Individual widths upon request
Continuously from 20–500 mm



Cutting service
Design Tribo-Tape flexibly
► www.igus.eu/custom-tape



Linear wear against stainless steel pin (1.4305)
F = 10 N, v = 9,600 mm/min



Order key

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

W160- T - 005 - 0020 - G



Tribo-Tape from iglidur® W160 with adhesive back
Temperature –40 °C up to +90 °C

With its white colour and UV-stabilised additives, the iglidur® W160 Tribo-Tape offers even more design freedom as a visual part. The anti-bacterial feature also offers advantages in areas like medical technology, where hygiene is critical.

Dimensions [mm]

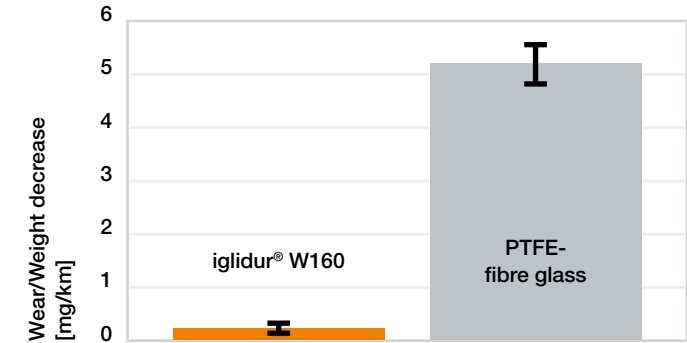
Thickness	Thickness tolerance	Width	Width tolerance	Part No.	Part No. with adhesive back ¹¹²⁾
0.5	±0.1	20	±0.5	W160-T-005-0020	W160-T-005-0020-G
0.5	±0.1	50	±0.5	W160-T-005-0050	W160-T-005-0050-G
0.5	±0.1	100	±0.5	W160-T-005-0100	W160-T-005-0100-G
0.5	±0.1	500	±1.0	W160-T-005-0500	W160-T-005-0500-G

¹¹²⁾ Adhesive thickness tolerance: ±0.015 mm



Individual widths upon request
Continuously from 20–500 mm

Cutting service
Design Tribo-Tape flexibly
► www.igus.eu/custom-tape



Linear wear against stainless steel pin (1.4305)
F = 10 N, v = 9600 mm/min



Order key

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

V400- T - 005 - 0120 - G



Tribo-Tape from iglidur® V400 with adhesive back
Temperature –40 °C up to +200 °C

iglidur® V400 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.

Dimensions [mm]

Thickness	Thickness tolerance	Width	Width tolerance	Part No.	Part No. with adhesive back ¹¹²⁾
0.5	±0.1	120	±1.0	V400-T-005-0120	V400-T-005-0120-G

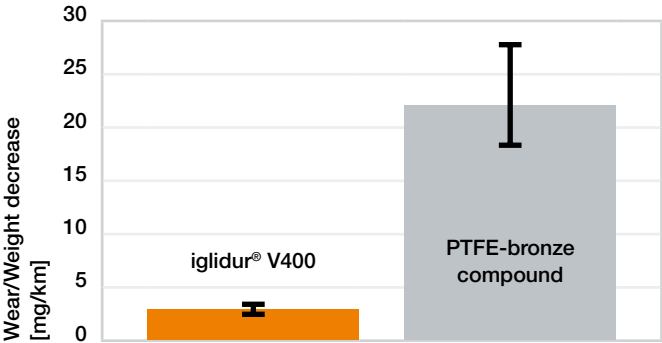
¹¹²⁾ Adhesive thickness tolerance: ±0.015 mm



Individual widths upon request
Continuously up to 120 mm



Cutting service
Design Tribo-Tape flexibly
► www.igus.eu/custom-tape



Linear wear against stainless steel pin (1.4305)
F = 35 N, v = 0.5 m/min