

iglidur® low-friction tribo-tape

Choice of 4 materials

Lubrication and maintenance-free

Wear-resistant

Easy to cut

Available with/without adhesive surface

Standard widths from stock





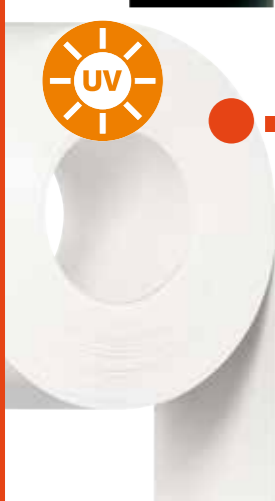
Material: iglidur® A160

- Low coefficient of friction
- Wear resistance: ++
- Up to +90°C
- ▶ Page 696



Material: iglidur® B160

- For use in visible areas
- Wear resistance: ++++
- Up to +90°C
- ▶ Page 697



Material: iglidur® W160

- White and UV-stabilised
- Wear resistance: +++
- Up to +90°C
- ▶ Page 698



Material: iglidur® V400

- High media resistance
- Wear resistance: +++++
- Up to +200°C (with adhesive back, see product page)
- ▶ Page 699

Easy-to-fit protection for all surfaces: iglidur® 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 0.5mm 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.

- Lubrication 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:
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 required product in required width from our iglidur® tribo-tape. Please contact us!
▶ www.igus.eu/tape-cut-to-size



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. total moisture 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
Flexural 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. continuous application temperature	°C	–50	–50	–50	–50	
Thermal 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	111	111	111	3	DIN 53752
Electrical properties						
Specific contact resistance	Ωcm	> 10 ¹²	> 10 ¹²	> 10 ¹²	> 10 ¹²	DIN IEC 93
Surface resistance	Ω	> 10 ¹²	> 10 ¹²	> 10 ¹²	> 10 ¹²	DIN 53482

Table 01: Material properties table

Chemical resistance (at +20°C)

Chemical resistance	iglidur® A160	iglidur® B160	iglidur® W160	iglidur® V400
Alcohols	+	+	+	+
Hydrocarbons	+	+	+	+
Greases, oils without additives	+	+	+	+
Fuels	+ up to 0	+ up to 0	+ up to 0	+
Diluted acids	+	+	+	+
Strong acids	+	+	+	+
Diluted alkalines	+	+	+	+
Strong alkalines	+	+	+	–
Radiation Resistance [Gy] up to	1 · 10 ⁵	1 · 10 ⁵	1 · 10 ⁵	2 · 10 ⁴

+ resistant 0 conditionally resistant – not resistant

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

Unknown factors, temperatures, wet weather and many other ambient conditions impair the adhesion. It is therefore essential that the use of iglidur® 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.

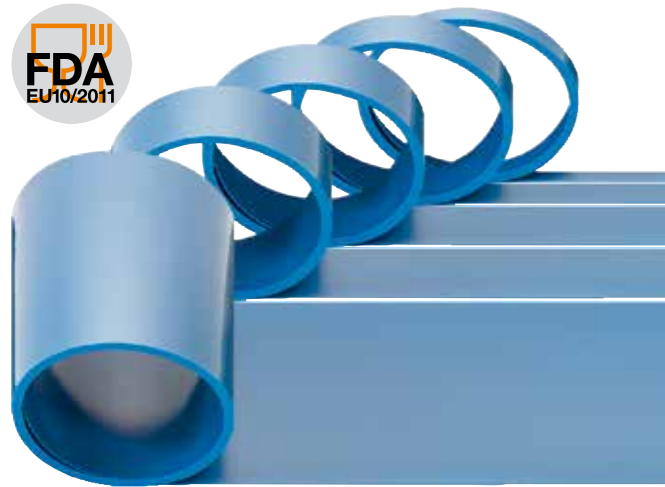
iglidur®	A160	B160	W160	V400
Technical specifications				
Wear resistance at +23°C				
Wear resistance at +90°C				
Wear resistance at +150°C				
Low coefficient of friction				
Low moisture absorption				
Wear resistance under water				
High media resistance				
Resistant to edge loads				
Suitable for shock and impact loads				
Resistant to dirt				
Price index ¹⁴¹⁾				
For high loads (> 60MPa)				
Electrically conductive				
Approvals and standards				
FDA-compliant	●			
EU 10/2011-compliant	●			
Fire class in accordance with UL-94	HB	HB	HB	V-0
Mould test DIN EN ISO 846				
Fogging DIN 75201-B				
Availabilities / variants				
Bar stock, round material	●			
Bar stock, tube				
Bar stock, plate				
Machined made from bar stock	●			
tribo-tape liner	●	●	●	●

¹⁴¹⁾ Price index low price category medium price category highest price category

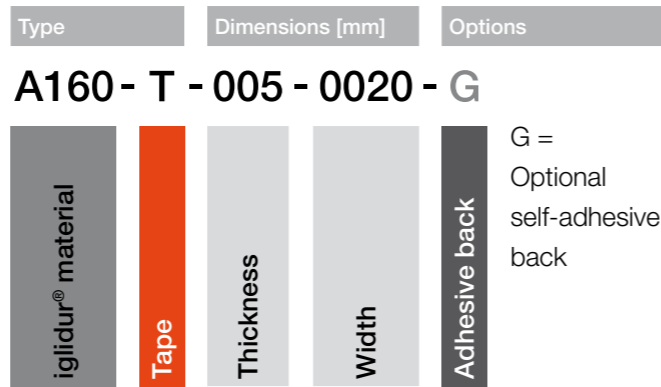


iglidur®	Unit	A160	B160	W160	V400
General properties					
Density	[g/cm ³]	1.00	1.00	0.95	1.51
Colour					
Max. moisture absorption at +23°C/50% r. h.	[% weight]	0.1	0.1	0.1	0.1
Max. total moisture absorption	[% weight]	0.1	0.1	0.1	0.2
Coefficient of sliding friction, dynamic, against steel	[μ]	0.09–0.19	0.13–0.20	0.12–0.20	0.15–0.20
Mechanical properties					
Flexural modulus	[MPa]	1,151	852	799	4,500
Flexural strength at +20°C	[MPa]	19	14	14	95
Compressive strength	[MPa]	37	37	37	47
Max. permissible surface pressure at +20°C	[MPa]	15	11	11	45
Shore D hardness		60	59	58	74
Physical and thermal properties					
Max. continuous operating temperature	[°C]	+90	+90	+90	+200
Max. short-term operating temperature	[°C]	+100	+100	+100	+240
Min. continuous operating temperature	[°C]	-50	-50	-50	-50
Thermal conductivity	[W/m · K]	0.30	0.32	0.30	0.24
Coefficient of thermal expansion at +23°C	[K ⁻¹ · 10 ⁻⁵]	111	111	111	3
Electrical properties					
Specific contact resistance	[Ωcm]	> 10 ¹²	> 10 ¹²	> 10 ¹²	> 10 ¹²
Surface resistance	[Ω]	> 10 ¹²	> 10 ¹²	> 10 ¹²	> 10 ¹²
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Order key



i tribo-tape from iglidur® A160 with adhesive back
Temperature -40°C up to +90°C

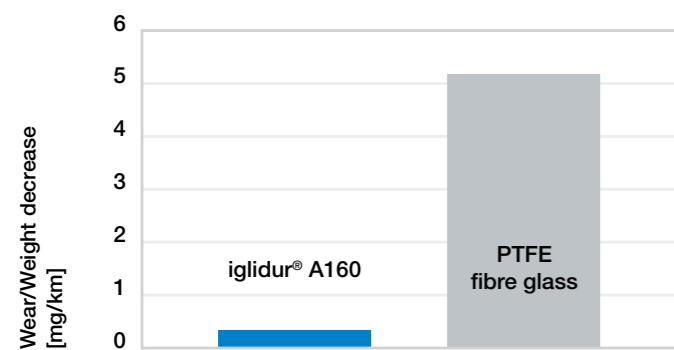
The low-cost iglidur® A160 tribo-tape has high wear resistance compared to similar, thin plastic products.

Dimensions [mm]

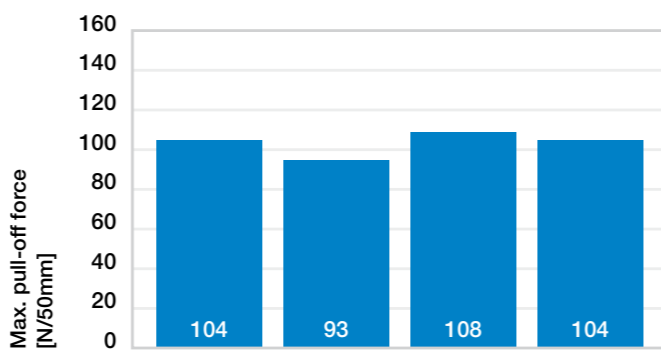
Material thickness without adhesive back	Material thickness with adhesive back	Width	Part No. without adhesive back	Part No. with adhesive back
±0.1	±0.121	±1.0		
0.5	0.71	20	A160-T-005-0020	A160-T-005-0020-G
0.5	0.71	50	A160-T-005-0050	A160-T-005-0050-G
0.5	0.71	100	A160-T-005-0100	A160-T-005-0100-G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

i Individual widths upon request
Continuously from 10–500mm

i Cutting service
Design tribo-tape flexibly
► www.igus.eu/tape-cut-to-size



Linear wear against stainless steel pin (AISI 303)
F = 10N, v = 9,600mm/min



180° pull-off test after various exposure conditions



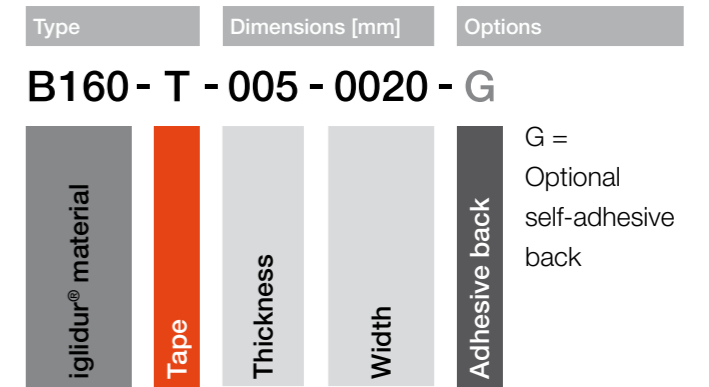
This material complies with EU directive 10/2011 and also with FDA (Food and Drug Administration) specifications for repeated contact with food.

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long life

Order key



i tribo-tape from iglidur® B160 with adhesive back
Temperature -40°C up to +90°C

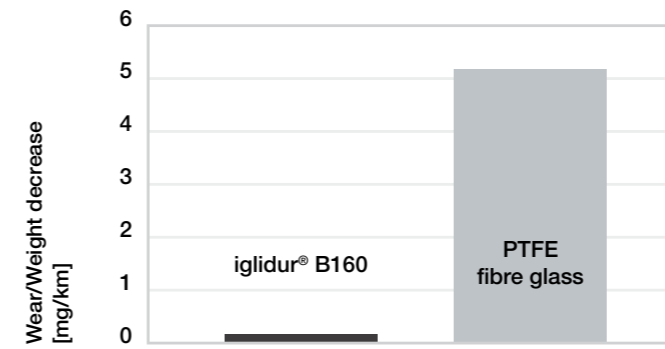
Especially where the iglidur® tribo-tape is a visible part, the new black option now offers even more creative freedom. In addition the wear resistance has been improved once again compared to iglidur® A160.

Dimensions [mm]

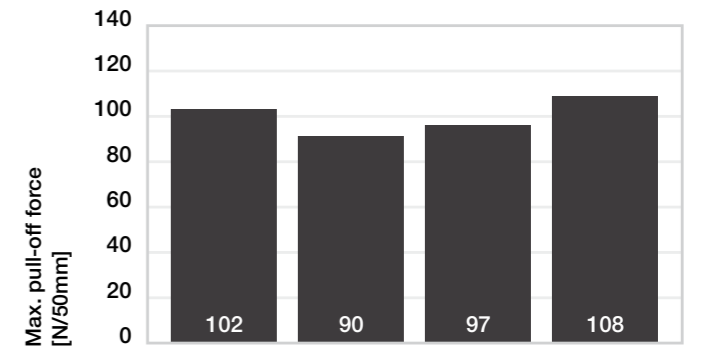
Material thickness without adhesive back	Material thickness with adhesive back	Width	Part No. without adhesive back	Part No. with adhesive back
±0.1	±0.121	±1.0		
0.5	0.71	20	B160-T-005-0020	B160-T-005-0020-G
0.5	0.71	50	B160-T-005-0050	B160-T-005-0050-G
0.5	0.71	100	B160-T-005-0100	B160-T-005-0100-G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

i Individual widths upon request
Continuously from 10–500mm

i Cutting service
Design tribo-tape flexibly
► www.igus.eu/tape-cut-to-size



Linear wear against stainless steel pin (AISI 303)
F = 10N, v = 9,600mm/min



180° pull-off test after various exposure conditions



3D CAD files, prices and delivery time online ► www.igus.eu/tribotape 697



Order key

Type	Dimensions [mm]	Options
W160 - T - 005 - 0020 - G		
iglidur® material	Tape	Thickness
		Width
		Adhesive back

G = Optional self-adhesive back



tribo-tape from iglidur® W160 with adhesive back
Temperature -40°C up to +90°C

With its white colour and UV-stabilised additives, iglidur® W160 tribo-tape offers even more design freedom. (148)

Dimensions [mm]

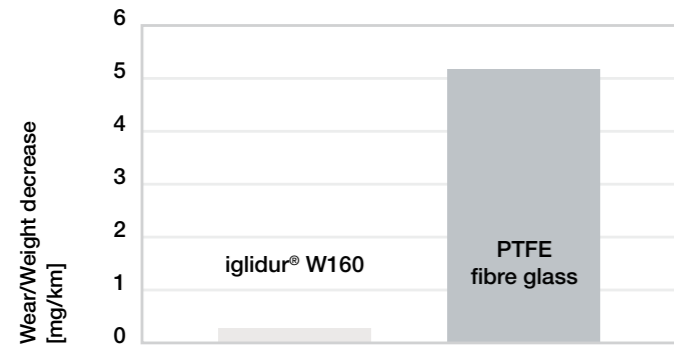
Material thickness without adhesive back ±0.1	Material thickness with adhesive back ±0.121	Width ±1.0	Part No. without adhesive back	Part No. with adhesive back
0.5	0.71	20	W160-T-005-0020	W160-T-005-0020-G
0.5	0.71	50	W160-T-005-0050	W160-T-005-0050-G
0.5	0.71	100	W160-T-005-0100	W160-T-005-0100-G
0.5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



Individual widths upon request
Continuously from 10–500mm

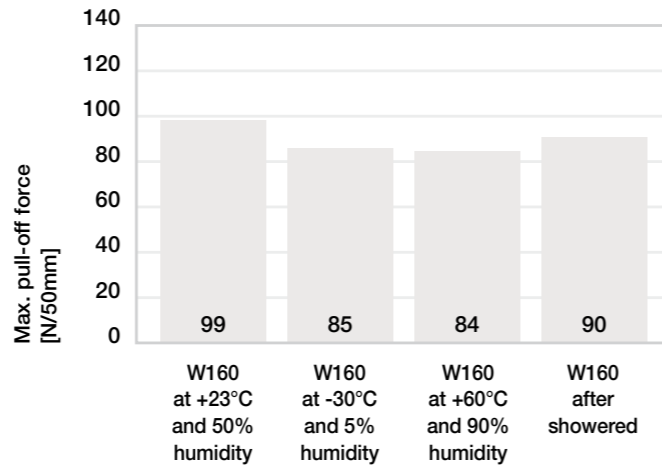


Cutting service
Design tribo-tape flexibly
▶ www.igus.eu/tape-cut-to-size



Linear wear against stainless steel pin (AISI 303)
F = 10N, v = 9600mm/min

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



180° pull-off test after various exposure conditions

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Order key

Type	Dimensions [mm]	Options
V400 - T - 005 - 0120 - G		
iglidur® material	Tape	Thickness
		Width
		Adhesive back

G = Optional self-adhesive back



tribo-tape from iglidur® V400 with adhesive back
Temperature -40°C up to +160°C

iglidur® 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.

Dimensions [mm]

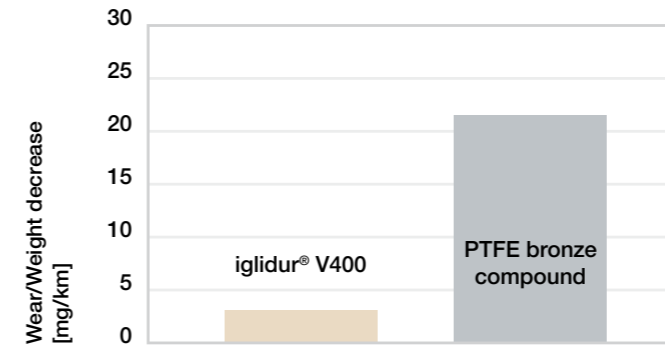
Material thickness without adhesive back ±0.1	Material thickness with adhesive back ±0.121	Width ±1.0	Part No. without adhesive back	Part No. with adhesive back
0.5	0.71	120	V400-T-005-0120	V400-T-005-0120-G



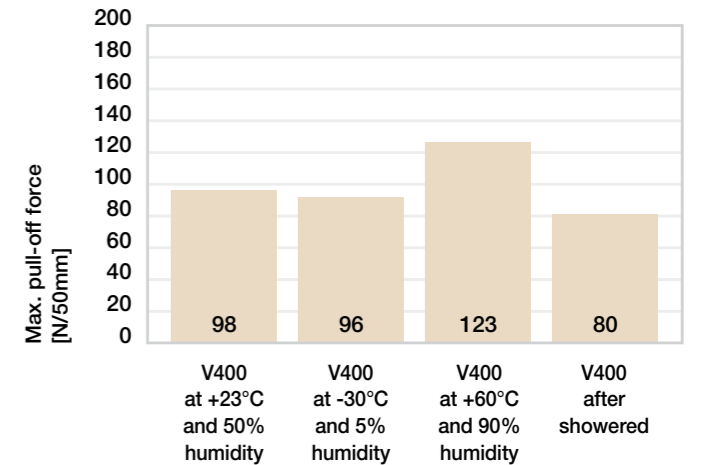
Individual widths upon request



Cutting service
Design tribo-tape flexibly
▶ www.igus.eu/tape-cut-to-size



Linear wear against stainless steel pin (AISI 303)
F = 35N, v = 0.5m/min



180° pull-off test after various exposure conditions



3D CAD files, prices and delivery time online ▶ www.igus.eu/tribotape 699