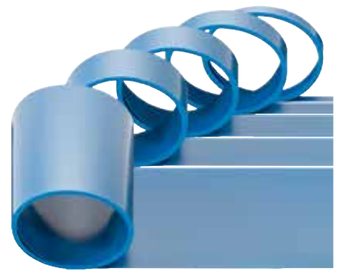
iglidur® low-friction tribo-tape

- Choice of 4 materials
- Lubrication and maintenance-free
- Wear-resistant
- Easy to cut
- Can be glued
- Standard widths from stock



Versatile: iglidur® tribo-tape

Material: iglidur® A160

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

Material: iglidur® B160

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

Material: iglidur® W160

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

Material: iglidur® V400

- High media resistance
- Wear resistance: +++++
- Up to 200 °C with adhesive back see product page

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)

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!

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. continuous 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)	$K^{-1} \cdot 10^{-5}$	11	11	11	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)

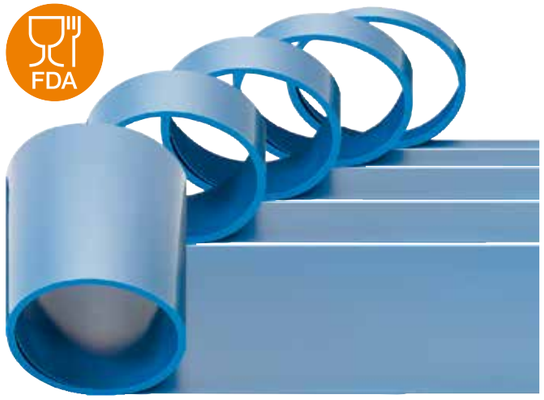
Chemical resistance	iglidur® A160	iglidur® B160	iglidur® W160	iglidur® V400
Alcohols	+	+	+	+
Hydrocarbons	+	+	+	+
Greases, oils without additives	+	+	+	+
Fuels	+ up to 0	+ up to 0	+ up to 0	+
Diluted acids	+	+	+	+
Strong acids	+	+	+	+
Diluted alkalines	+	+	+	+
Strong alkalines	+	+	+	–
Radiation Resistance [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® tribo-tape | Product range

FDA-compliant – iglidur® A160



Type	Dimensions [mm]	Options
A160 - T - 005 - 0020 - G		

iglidur® material | Tape | Thickness | Width | Adhesive back | G = Optional self-adhesive back

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

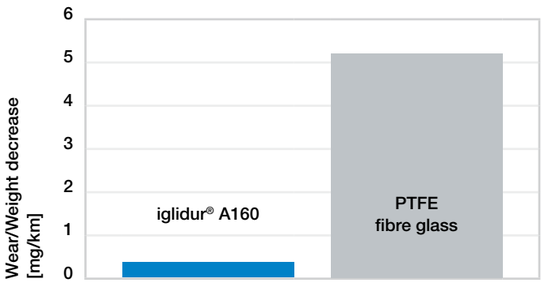
tribo-tape from iglidur® A160 with adhesive back
Temperature –40 °C up to +90 °C

Dimensions [mm]

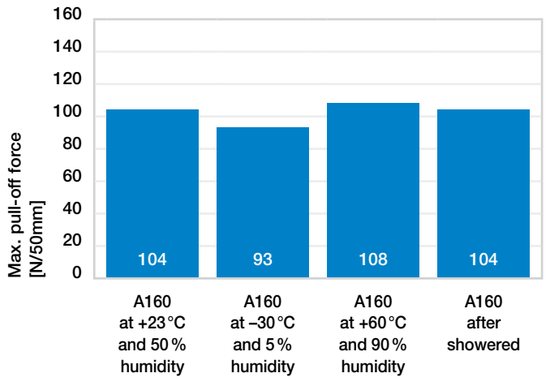
Material thickness without adhesive back +/-0.1	Material thickness with adhesive back +/-0.121	Width +/-1.0	Part No. without adhesive back	Part No. with adhesive back
0.5	0.71	20	A160-T-005-0020	A160-T-005-0020-G
0.5	0.71	50	A160-T-005-0050	A160-T-005-0050-G
0.5	0.71	100	A160-T-005-0100	A160-T-005-0100-G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

Individual widths upon request
Continuously from 10–500mm

Cutting service
Design tribo-tape flexibly



Linear wear against stainless steel pin (AISI 303)
F = 10 N, 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.

iglidur®
tribo-tape

iglidur® tribo-tape | Product range

For use in visible areas – iglidur® B160

Type	Dimensions [mm]	Options
B160 - T - 005 - 0020 - G		

iglidur® material | Tape | Thickness | Width | Adhesive back | G = Optional self-adhesive back

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.

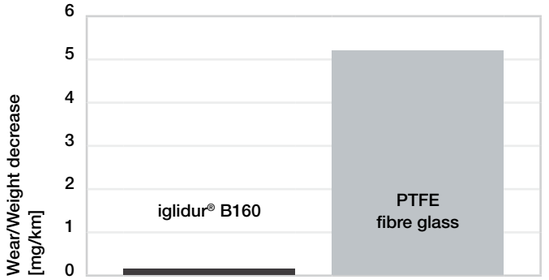
tribo-tape from iglidur® B160 with adhesive back
Temperature –40 °C up to +90 °C

Dimensions [mm]

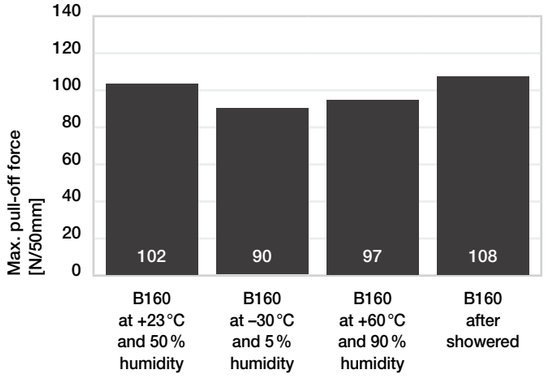
Material thickness without adhesive back +/-0.1	Material thickness with adhesive back +/-0.121	Width +/-1.0	Part No. without adhesive back	Part No. with adhesive back
0.5	0.71	20	B160-T-005-0020	B160-T-005-0020-G
0.5	0.71	50	B160-T-005-0050	B160-T-005-0050-G
0.5	0.71	100	B160-T-005-0100	B160-T-005-0100-G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

Individual widths upon request
Continuously from 10–500mm

Cutting service
Design tribo-tape flexibly



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



180° pull-off test after various exposure conditions

iglidur® tribo-tape | Product range

White and UV-stabilised – iglidur® W160

Type	Dimensions [mm]	Options
W160 - T - 005 - 0020 - G		

iglidur® material | Tape | Thickness | Width | Adhesive back

G = Optional self-adhesive back

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

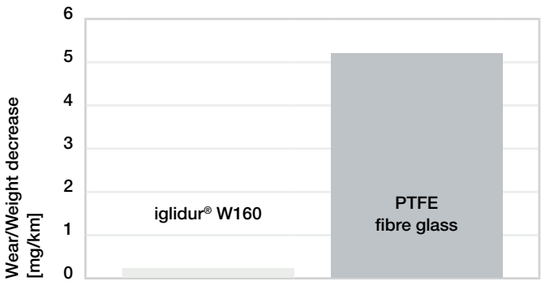
tribo-tape from iglidur® W160 with adhesive back
Temperature –40 °C up to +90 °C

Dimensions [mm]

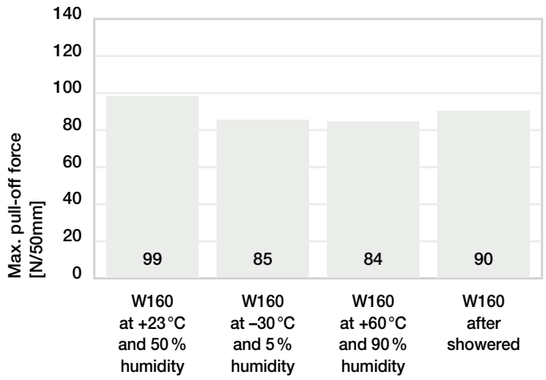
Material thickness without adhesive back +/-0.1	Material thickness with adhesive back +/-0.121	Width +/-1.0	Part No. without adhesive back	Part No. with adhesive back
0.5	0.71	20	**W160-T-005-0020**	**W160-T-005-0020-G**
0.5	0.71	50	**W160-T-005-0050**	**W160-T-005-0050-G**
0.5	0.71	100	**W160-T-005-0100**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



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



180° pull-off test after various exposure conditions

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.

iglidur®
tribo-tape

iglidur® tribo-tape | Product range

High media resistance – iglidur® V400

Type	Dimensions [mm]	Options
V400 - T - 005 - 0120 - G		

iglidur® material | Tape | Thickness | Width | Adhesive back

G = Optional self-adhesive back

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.

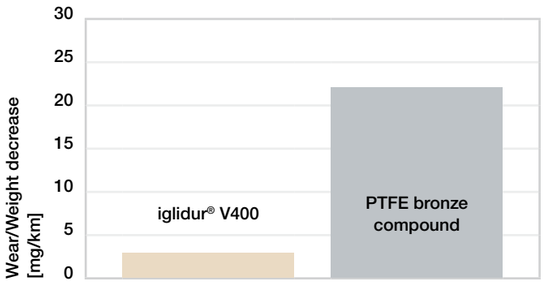
tribo-tape from iglidur® V400 with adhesive back
Temperature –40 °C up to +160 °C

Dimensions [mm]

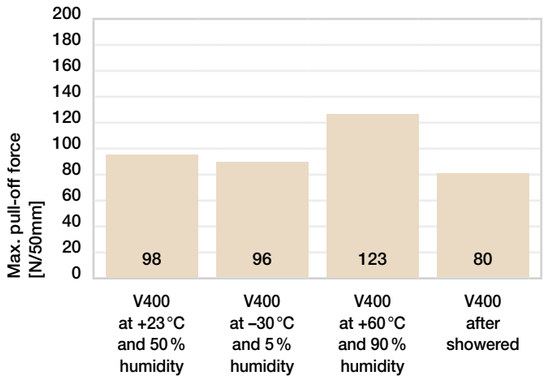
Material thickness without adhesive back +/-0.1	Material thickness with adhesive back +/-0.121	Width +/-1.0	Part No. without adhesive back	Part No. with adhesive back
0.5	0.71	120	**V400-T-005-0120**	**V400-T-005-0120-G**

Individual widths upon request

Cutting service
Design tribo-tape flexibly



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



180° pull-off test after various exposure conditions