

Iglidur

Mechanical property*	Standard	Unit	Value
Young modulus	ISO 527-2	MPa	--
Yield tensile strenght	ISO 527-2	MPa	--
Tensile strength at break	ISO 527-2	MPa	--
Elongation at yield	ISO 527-2	%	--
Elongation at break	ISO 527-2	%	--
Flexural modulus	ISO 178	MPa	1000
Flexural yield strength	ISO 178	MPa	44
Flexural strength at break	ISO 178	MPa	--
Flexural elongation at yield	ISO 178	%	--
Flexural elongation at break	ISO 178	%	--
Impact resistance (Charpy), unnotched	ISO 179-1	KJ/m ²	--
Sliding friction coefficient, steel CF53			0.24
Sliding friction coefficient, AISI 304			0.17
Maximum value p x v (dry)		MPa*m/s	0.23
Pressure load		MPa	59
Maximum superficial pressure	At 20°C	MPa	30

Thermal property	Standard	Unit	Value
Highest long term temperature		°C	80°C
Highest short term temperature		°C	90°C
Lowest service temperature		°C	-40°C
Thermal dilatation coefficient	ASTM 53752	K ⁻¹	9 10 ⁻⁵
Thermal conductivity	ASTM C 177	W/(m*K)	0.23

Other	Standard	Unit	Value
Density (specific gravity)	ISO 1183-1	g/cm ³	1.21
Electrical volume resistivity		Ωcm	10 ¹²
Flame resistance	UL94		No
Maximum moisture adsorption	ASTM 53495	% ^(w/w)	0.3
Railroad application compatibility	EN 45545		No
Biocompatibility			No
Blue card			No
Water contact			No
Food contact	FDA 21; EU 10/2011		No

*Above values are obtained from samples printed on A4v4 at 0.2mm layer thickness.

**Product is compliant but not certified.

The information presented on this document should be used for comparison and self instruction purposes only and are not intended to substitute customer testing to certify the material suitability for customer use and application.

Actual values will vary according to production settings, test conditions and user part geometry – the above values are not meant to be used as design specification or production control testing reference values.

The user is responsible about the end-of-life disposal/recycling of the product.

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