OVERVIEW TECHNICAL DATA

ELTIMID® TO 15G

Material description	High-temperature polyimide, with Graphit (15%)
Colour	green-grey
Application	bearing bushes, thrust rings
Available as	Rods and components as per drawing

Mechanical and physical properties

Properties	Test method/ standard	Unit	Value
Tensile strength	DIN EN ISO 527	MPa	49
Elongation at break		%	1,2
Tensile modulus		MPa	4940
Flexural strength	DIN EN ISO 178	MPa	85
Flexural strain at break		%	1,8
Flexural modulus		MPa	5030
Compressive strength	DIN EN ISO 604	MPa	-
Compressive stress at 10 % compression		MPa	-
Compressive stress at 50 % compression		MPa	-
Compressive modulus		MPa	-
Shore hardness	EN ISO 868	Shore D	81
Coefficient of friction static dynamic	-	µ	- -
Wear	-	g/KWh	-
Oil/grease resistance	-	-	resistant
Specific gravity	-	g/cm³	1,48
Water absorption 24 h at 23 °C 48 h at 23 °C 96 h at 23 °C 3 weeks at 23 °C 24 h at 80 °C 48 h at 80 °C 96 h at 80 °C 3 weeks at 80 °C	DIN EN ISO 62	%	 0,18 0,23 0,28 0,40 0,53 0,76 - 1,00

Thermal properties

Properties	Test method/ standard	Unit	Value
Long-term service temperature	-	°C	350
Short-term service temperature < 3h < 1h (under minimal load)	-	°C	 400 480
Coefficient of linear thermal expansion	DIN 53752/ TMA	10^{-6} x K^{-1}	-
Specific heat capacity	DSC	J/g x K	-
Thermal conductivity	DSC	W/m x K	-
Glass transition temperature T_g (tan delta $_{max}$)	DMA	°C	-

Electrical characteristics

Properties	Test method/ standard	Unit	Value
Dielectric constant	IEC 60250	-	–
Dielectric dissipation factor		-	–
Surface resistivity	DIN IEC 93	Ω	–
Volume resistivity		Ωm	–
Tracking resistance	DIN EN 60112	-	–
Electric strength	DIN IEC 60243-1	kV/3 mm	-
Flammability rating	UL 94	-	–

Issue:
02/2018

We reserve the right to make changes in the context of further technical developments. The guide values listed in this data sheet are not contractual data.

Please contact our applications and sales engineers to clarify the suitability of the material for your application.