

OVERVIEW TECHNICAL DATA

DoglideEltimid[®] 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	-	μ	-	
Coefficient of friction dynamic	-	μ	-	
Wear	-	g/KWh	-	
Oil/grease resistance	-	-	resistant	
Specific gravity	-	g/cm ³	1,48	
Water absorption	DIN EN ISO 62	%	24 h at 23 °C	0,18
48 h at 23 °C			0,23	
96 h at 23 °C			0,28	
3 weeks at 23 °C			0,40	
24 h at 80 °C			0,53	
48 h at 80 °C			0,76	
96 h at 80 °C			-	
3 weeks at 80 °C			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 properties

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	-	-

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The standard values shown in this data sheet are measured by standard test methods. Depending on operation terms and dimensions the material properties can differ from these values.

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