

**OVERVIEW TECHNICAL DATA**

# DoglideEltimid® CP 15G

<b>Material description</b>	High-temperature polyimide, with Graphit (15%)
<b>Colour</b>	green-grey
<b>Application</b>	bearing bushes, thrust rings
<b>Available as</b>	blanks, rods and components as per drawing

## → Mechanical and physical properties

Properties	Test method/standard	Unit	Value
Tensile strength	DIN EN ISO 527	MPa	60
Elongation at break		%	3,0
Tensile modulus		MPa	2850
Flexural strength	DIN EN ISO 178	MPa	80
Flexural strain at break		%	3,0
Flexural modulus		MPa	3170
Compressive strength	DIN EN ISO 604	MPa	350
Compressive stress at 10 % compression		MPa	150
Compressive stress at 50 % compression		MPa	330
Compressive modulus		MPa	3940
Shore hardness	EN ISO 868	Shore D	82
Coefficient of friction static	-	μ	0,35
dynamic			0,28
Wear	-	g/KWh	0,21
Oil/grease resistance	-	-	resistant
Specific density	-	g/cm <sup>3</sup>	1,33
Water absorption	DIN EN ISO 62	%	0,8
24 h at 23 °C			1,1
48 h at 23 °C			1,6
96 h at 23 °C			2,7
3 weeks at 23 °C			2,2
24 h at 80 °C			2,6
48 h at 80 °C			2,9
96 h at 80 °C			-
3 weeks at 80 °C			-

## → Thermal properties

Properties	Test method/standard	Unit	Value
Long-term service temperature	-	°C	280
Short-term service temperature < 3h < 1h (under minimal load)	-	°C	400 450
Coefficient of linear thermal expansion	DIN 53752/TMA	10 <sup>-6</sup> x K <sup>-1</sup>	40
Specific heat capacity	DSC	J/g x K	1,080
Thermal conductivity	DSC	W/m x K	0,3
Glass transition temperature T <sub>g</sub> (tan delta <sub>max</sub> )	DMA	°C	361

## → 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	21
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.