

Technical Data Sheet



TEDUR L 9401-1

Base Polymer	Polyphenylene Sulphide
Filler/Additive System	40 % glass fibres, 5 % PTFE
Special Features	improved sliding / wear, high stiffness
Market Segment	Automotive, Machinery
Typical Applications	bearings and sliding elements, functional components

Pre-Drying Conditions	in a dry air (dessiccant) dryer 130-140 °C for 2-4 h dependant on moisture content
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Processing Injection Moulding	melt temperature 320-340 °C mould temperature >140 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	14000	MPa	ISO 178
Flexural Strength	245	MPa	ISO 178
Flexural Deflection (Maximum Force)	2	%	ISO 178
Tensile Modulus	14500	MPa	ISO 527
Tensile Strength at Break	165	MPa	ISO 527
Tensile Elongation at Break	1.5	%	ISO 527
Impact Strength (Charpy, 23°C)	38	kJ/m ²	ISO 179/1eU
Thermal Properties			
HDT / A (1,8 MPa)	277	°C	ISO 75-1/-2
DSC (Melt Point)	280	°C	ISO 11357
Electrical Properties			
Surface Resistance	1E12	Ohm	DIN EN 62631-3-2
Physical Properties			
Density	1700	kg/m ³	ISO 1183
Tribologic Properties			
Coefficient of Sliding Friction μ (pv = 5*1 MPa*m/s)	0.36	-	ASTM G 137
Coefficient of Sliding Friction μ_H (pv = 5*1 MPa*m/s)	0.27	-	ASTM G 137
Specific Wear Rate ws (pv = 5*1 MPa*m/s)	0.82	E-6 mm ³ /Nm	ASTM G 137
Linear Wear Rate w (pv = 5*1 MPa*m/s)	14.8	$\mu\text{m}/\text{h}$	ASTM G 137
Flammability			
Flammability (1.5 mm)	V-0	class	UL 94
Glow Wire (GWFI, 960°C, 2.0mm)	passed	-	DIN EN 60695