Technical Data Sheet

Tedur®

ALBIS

TEDUR L 9401-1

(Last update: 29.11.2024)

M COM

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
Processing Injection Moulding	melt temperature 320-340 °C mould temperature >140 °C
Storage	dry, protected from light

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/m²	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/m³	ISO 1183
Tribologic Properties			
Coefficient of Sliding Friction µ (pv = 5*1 MPa*m/s)	0.36	-	ASTM G 137
Coefficient of Sliding Friction µH (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 mm³/Nm	ASTM G 137
Linear Wear Rate w (pv = 5*1 MPa*m/s)	14.8	µm/h	ASTM G 137

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Flammability

Flammability (1.5 mm)	V-0	class	UL 94
Glow Wire (GWFI, 960 °C, 2.0mm)	passed	-	DIN EN 60695

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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