

Technical Data Sheet



TEDUR L 9107-1 U

Base Polymer	Polyphenylene Sulphide
Filler/Additive System	40 % glass fibres
Special Features	injection moulding grade,high toughness,reduced flash,increased burst strength
Application Area	pump components
Typical Applications	pump impellers

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	280	MPa	ISO 178
Flexural Deflection (Maximum Force)	2.1	%	ISO 178
Tensile Modulus	15500	MPa	ISO 527
Tensile Strength at Break	195	MPa	ISO 527
Tensile Elongation at Break	1.7	%	ISO 527
Impact Strength (Charpy, 23°C)	45	kJ/m²	ISO 179/1eU
Thermal Properties			
HDT / A (1,8 MPa)	278	°C	ISO 75-1/-2
DSC (Melt Point)	280	°C	ISO 11357
Electrical Properties			
Surface Resistance	1E12	Ohm	DIN EN 62631-3-2
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1660	kg/m³	ISO 1183
Flammability			
Flammability (0.75 mm)	V-0	class	UL 94
Glow Wire (GWFI, 960 °C, 2.0mm)	passed	-	DIN EN 60695