

Technical Data Sheet



TEDUR L PPS FT 2040 NC1082-20

Base Polymer	Polyphenylene Sulphide
Filler/Additive System	40 % glass fibres
Special Features	high purity, high stiffness
Application Area	injection moulded parts
Typical Applications	fuel cells

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	14500	MPa	ISO 178
Flexural Strength	245	MPa	ISO 178
Flexural Deflection (Maximum Force)	1.9	%	ISO 178
Tensile Modulus	15200	MPa	ISO 527
Tensile Strength at Break	170	MPa	ISO 527
Tensile Elongation at Break	1.5	%	ISO 527
Impact Strength (Charpy, 23°C)	40	kJ/m ²	ISO 179/1eU
Thermal Properties			
HDT / A (1,8 MPa)	274	°C	ISO 75-1/-2
DSC (Melt Point)	280	°C	ISO 11357
Electrical Properties			
Surface Resistance	1E14	Ohm	DIN EN 62631-3-2
Physical Properties			
Density	1660	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	V-0	class	UL 94
Glow Wire (GWFI, 960°C, 1.0mm)	passed	-	DIN EN 60695