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Technical Data Sheet

Schulatec PPS GF40 N1 NAT

Polyphenylene Sulfide

Product Description

40% glass fibre reinforced PPS grade with high chemical resistance and good mechanical properties also at high temperatures.

Processing Method	Injection Molding
Filler/Reinforcement	Glass Fiber, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (315 °C/5.0 kg)	20	cm³/10 min	ISO 1133
Density, (Method A)	1.67	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	2.1	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	14500	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	180	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	15000	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 2.3%)	280	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	8.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	44	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	42	kJ/m²	ISO 179
Thermal			
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	>250	°C	ISO 75-2/A
Electrical			
Comparative Tracking Index (CTI)	100	V	IEC 60112
Flammable			
Glow Wire Flammability Index			
(0.75 mm)	960	°C	IEC 60695-2-12
(1.5 mm)	960	°C	IEC 60695-2-12
(3.0 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(0.75 mm)	775	°C	IEC 60695-2-13
(1.5 mm)	775	°C	IEC 60695-2-13
(3.0 mm)	775	°C	IEC 60695-2-13
UL Information			
Flammability Classification			
(0.8 mm)	V-0		IEC 60695-11-10, -20
(1.6 mm)	V-0		IEC 60695-11-10, -20
(3.2 mm)	V-0		IEC 60695-11-10, -20