

Technical Data Sheet

Schulatec PPS GF 40 SF FC - EU

Polyphenylene Sulfide
LyondellBasell Industries
Engineering Plastics

Product Description

40% glass fibre reinforced PPS compound with european food contact approval

General

Processing Method • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.66 g/cm³	1.66 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (300°C/5.0 Kg)	70 cm³/10min	70 cm³/10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	2.18E+6 psi	15000 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	27600 psi	190 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.6 %	1.6 %	ISO 527-2/1A/5
Flexural Modulus	2.32E+6 psi	16000 MPa	ISO 178
Flexural Stress	39200 psi	270 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength	4.8 ft·lb/in²	10 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	19 ft·lb/in²	40 kJ/m²	ISO 179/1eU
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Annealed	500 °F	260 °C	ISO 75-2/Af
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Electric Strength ¹ 73°F (23°C), 0.0394 In (1.00 Mm), In Oil	890 V/mil	35 kV/mm	IEC 60243-1
Comparative Tracking Index	175 V	175 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate ² 0.0787 In (2.00 Mm)	0.0 in/min	0.0 mm/min	ISO 3795
0.0787 In (2.00 Mm)	0.0 in/min	0.0 mm/min	FMVSS 302
Flame Rating (0.06 In (1.5 Mm))	V-0	V-0	UL 94
Glow Wire Flammability Index 0.06 In (1.5 Mm)	1760 °F	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.5 Sec)	1560 °F	850 °C	IEC 60695-2-13

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature - Dry Air Dryer	266 to 284 °F	130 to 140 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	572 to 626 °F	300 to 330 °C
Mold Temperature	275 to 293 °F	135 to 145 °C
Screw Speed	40 to 100 rpm	40 to 100 rpm

Notes

¹ 2000 V/sec

² Self-Extinguishing

Notes

These are typical property values not to be construed as specification limits.