

Technical Data Sheet



Schulatec PPS GF 40 SF

Polyphenylene Sulfide
LyondellBasell Industries
Engineering Plastics

Product Description

40% glass fibre reinforced PPS compound

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.66 g/cm ³	1.66 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	70 cm ³ /10min	70 cm ³ /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/in ²	10 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	19 ft·lb/in ²	40 kJ/m ²	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

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Notes

¹ 2000 V/sec

² Self-Extinguishing

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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