

Technical Data Sheet



Schulamid 66 GF 43

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description

43% glass fiber reinforced, Polyamid 66

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 43% Filler by Weight		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.49 g/cm ³	1.49 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	25 cm ³ /10min	25 cm ³ /10min	ISO 1133
Viscosity Number	145 cm ³ /g	145 cm ³ /g	ISO 307
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.96E+6 psi	13500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	31200 psi	215 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527-2/1A/5
Flexural Modulus ¹	1.77E+6 psi	12200 MPa	ISO 178
Flexural Stress ¹			ISO 178
4.0% Strain	48600 psi	335 MPa	
3.5% Strain	47100 psi	325 MPa	
4.0% Strain ²	47900 psi	330 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	4.8 ft·lb/in ²	10 kJ/m ²	
73°F (23°C)	7.1 ft·lb/in ²	15 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	> 482 °F	> 250 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	> 482 °F	> 250 °C	ISO 75-2/ Af
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	1.2 in/min	30 mm/min	ISO 3795
0.0787 in (2.00 mm)	1.2 in/min	30 mm/min	FMVSS 302

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

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Notes

¹ 0.079 in/min (2.0 mm/min)

² at break

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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