

Technical Data Sheet

Schulamid 66 GF 43

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description

43% glass fiber reinforced, Polyamid 66

General

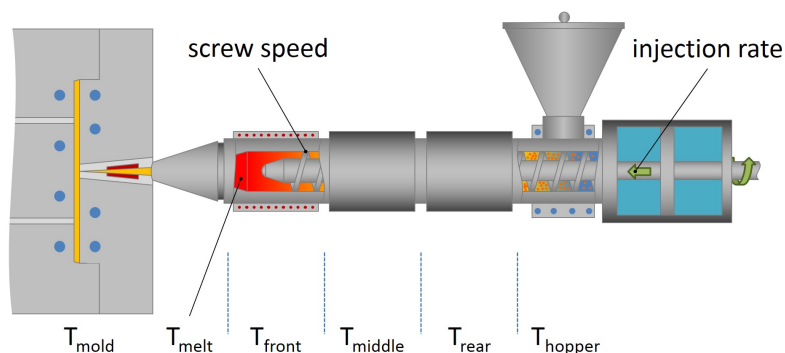
Filler / Reinforcement	• Glass Fiber, 43% Filler by Weight
Processing Method	• Injection Molding

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

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.