

Technical Data Sheet

Schulamid 6 GB 15

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description			
15% glass bead filled PA 6			
General			
Filler / Reinforcement	• Glass Bead, 15% Filler by Weight		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.23 g/cm³	1.23 g/cm³	ISO 1183/A
Viscosity Number	145 cm³/g	145 cm³/g	ISO 307
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	493000 psi	3400 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	10400 psi	72.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	9.0 %	9.0 %	ISO 527-2/1A/5
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.7 ft·lb/in²	3.5 kJ/m²	
73°F (23°C)	2.4 ft·lb/in²	5.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	12 ft·lb/in²	26 kJ/m²	
73°F (23°C)	21 ft·lb/in²	45 kJ/m²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	329 °F	165 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	140 °F	60.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	378 °F	192 °C	ISO 306/B50
--	410 °F	210 °C	ISO 306/A120
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Comparative Tracking Index	450 V	450 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	1.6 in/min	40 mm/min	ISO 3795
0.0787 In (2.00 Mm)	1.6 in/min	40 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	
Glow Wire Flammability Index	1200 °F	650 °C	IEC 60695-2-12

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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	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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