

Schuladur A GF 15 HI

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics

Product Description

15% glass fibre reinforced PBT compound providing high impact strength

General

Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Features	• Impact Modified
Automotive Specifications	• GM QK 006612 E Color: Natural
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT-GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.37 g/cm ³	1.37 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 Kg)	15 cm ³ /10min	15 cm ³ /10min	ISO 1133
Water Absorption Equilibrium, 73°F (23°C), 50% Rh	0.30 %	0.30 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	754000 psi	5200 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	13300 psi	92.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.8 %	3.8 %	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)	2.9 ft·lb/in ²	6.0 kJ/m ²	
73°F (23°C)	5.2 ft·lb/in ²	11 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	16 ft·lb/in ²	33 kJ/m ²	
73°F (23°C)	29 ft·lb/in ²	61 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	423 °F	217 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	374 °F	190 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	387 °F	197 °C	ISO 306/B50
--	426 °F	219 °C	ISO 306/A50
Ball Pressure Test (392°F (200°C))	Pass	Pass	IEC 60695-10-2
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	375 V	375 V	IEC 60112





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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 In (2.00 Mm)	1.4 in/min	35 mm/min	ISO 3795
0.0787 In (2.00 Mm)	1.4 in/min	35 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	
0.12 In (3.0 Mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 In (1.5 Mm)	1340 °F	725 °C	
0.12 In (3.0 Mm)	1340 °F	725 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 In (1.5 Mm)	1380 °F	750 °C	
0.12 In (3.0 Mm)	1380 °F	750 °C	
Oxygen Index	19 %	19 %	ISO 4589-2

Additional Information

1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications



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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.05 %	0.05 %
Processing (Melt) Temp	464 to 482 °F	240 to 250 °C
Mold Temperature	158 to 194 °F	70 to 90 °C

Notes

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

