Technical Data Sheet

Schulamid 6 GF 15 HI H LW

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description			
15% glass fiber reinforced PA 6, heat stabilized, impact modified, black and laser transparent for laser welding			
General			
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Heat Stabilized	• Impact Modified	• Laser Weldable
Appearance	• Black		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm³	1.20 g/cm³	ISO 1183/A
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	667000 psi	4600 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	14500 psi	100 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	6.0 %	6.0 %	ISO 527-2/1A/5
Flexural Modulus	508000 psi	3500 MPa	ISO 178
Flexural Stress	20300 psi	140 MPa	ISO 178
Flexural Strain at Flexural Strength	6.5 %	6.5 %	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	6.7 ft·lb/in²	14 kJ/m²	
73°f (23°c)	9.5 ft·lb/in²	20 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	33 ft·lb/in²	70 kJ/m²	
73°f (23°c)	36 ft·lb/in²	75 kJ/m²	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 358/30)	21600 psi	149 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	401 °F	205 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	365 °F	185 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	401 °F	205 °C	ISO 306/B50
--	419 °F	215 °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·cm	> 1.0E+13 ohms·cm	IEC 60093
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)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Glow Wire Flammability Index	1200 °F	650 °C	IEC 60695-2-12

Notes

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