

Technical Data Sheet



Schulamid 6 GF 30 FR 2 H0

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fibre reinforced flame-retardant Polyamide 6 grade; halogen free, electrically neutral

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Features	• Flame Retardant	• Halogen Free
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA6 GF30 FR(40)	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.43 g/cm ³	1.43 g/cm ³	ISO 1183/A
Viscosity Number	143 cm ³ /g	143 cm ³ /g	ISO 307
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.52E+6 psi	10500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	21000 psi	145 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0 %	3.0 %	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)	4.3 ft·lb/in ²	9.0 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)	29 ft·lb/in ²	60 kJ/m ²	
73°F (23°C)	33 ft·lb/in ²	70 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	419 °F	215 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	399 °F	204 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	397 °F	203 °C	ISO 306/B50
--	414 °F	212 °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	600 V	600 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			ISO 3795
0.0295 in (0.750 mm), Self-Extinguishing	0.0 in/min	0.0 mm/min	
0.0591 in (1.50 mm), Self-Extinguishing	0.0 in/min	0.0 mm/min	
0.118 in (3.00 mm), Self-Extinguishing	0.0 in/min	0.0 mm/min	
Flammability Classification			IEC 60695-11-10, -20
0.030 in (0.75 mm)	V-0	V-0	
--	V-0	V-0	
	5VA	5VA	
0.12 in (3.0 mm)	V-0	V-0	
	5VA	5VA	
0.08 in (2.0 mm)	5VA	5VA	

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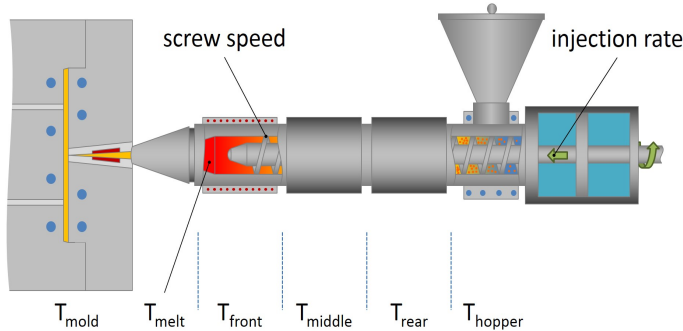
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
0.030 in (0.75 mm)	1760 °F	960 °C	
0.06 in (1.5 mm)	1760 °F	960 °C	
0.12 in (3.0 mm)	1760 °F	960 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.030 in (0.75 mm)	1470 °F	800 °C	
0.06 in (1.5 mm)	1470 °F	800 °C	
0.12 in (3.0 mm)	1470 °F	800 °C	
Oxygen Index	32 %	32 %	ISO 4589-2

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	518 to 572 °F	270 to 300 °C
Mold Temperature	140 to 194 °F	60 to 90 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	290 to 1160 psi	2.00 to 8.00 MPa
Screw Speed	< 591 in/min	< 15 m/min

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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