Technical Data Sheet

LyondellBasell

Schulamid 6 GF30 H2 FR2

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description		
30% glass fibre reinforced flame-retardant Polyamide 6 grade; halogen free, electrically neutral heat stabilized		
General		
Material Status	• Experimental: Active	
Availability	• Europe	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Features	• Electrical Corrosion Resistant • Flame Retardant	• Halogen Free • Heat Stabilized
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA6 GF30 FR(40)	

Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.43	--	g/cm³	ISO 1183/A
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.74E+6 (12000)	1.12E+6 (7700)	psi (MPa)	ISO 527-1/1A
Tensile Stress (Break)	19600 (135)	13500 (93.0)	psi (MPa)	ISO 527-2/1A
Tensile Strain (Break)	2.6	5.0	%	ISO 527-2/1A
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	4.8 (10)	6.7 (14)	ft·lb/in² (kJ/m²)	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F (23°C)	30 (63)	36 (76)	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 psi (0.45 MPa), Unannealed	419 (215)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	399 (204)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	397 (203)	--	°F (°C)	ISO 306/B50
--	414 (212)	--	°F (°C)	ISO 306/A50
Ball Pressure Test (392°F (200°C))	Pass	--		IEC 60695-10-2
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate				ISO 3795
0.0295 in (0.750 mm), Self-Extinguishing	0.0	--	in/min (mm/min)	
0.0591 in (1.50 mm), Self-Extinguishing	0.0	--	in/min (mm/min)	
0.118 in (3.00 mm), Self-Extinguishing	0.0	--	in/min (mm/min)	

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Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.030 in (0.75 mm)	V-0	--		
0.06 in (1.5 mm)	V-0	--		
0.12 in (3.0 mm)	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.030 in (0.75 mm)	1760 (960)	--	°F (°C)	
0.06 in (1.5 mm)	1760 (960)	--	°F (°C)	
0.12 in (3.0 mm)	1760 (960)	--	°F (°C)	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.030 in (0.75 mm)	1430 (775)	--	°F (°C)	
0.06 in (1.5 mm)	1430 (775)	--	°F (°C)	

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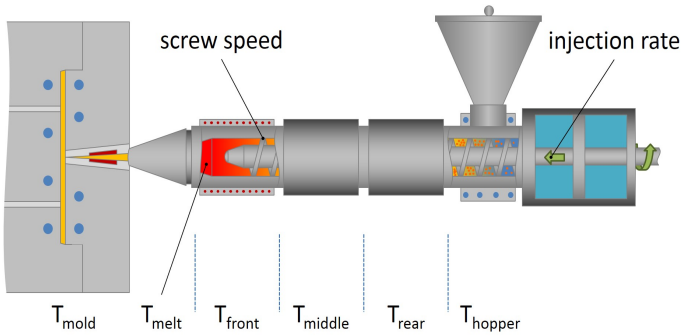

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	464 to 500 °F	240 to 260 °C
Mold Temperature	140 to 194 °F	60 to 90 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	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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