

Technical Data Sheet



Schuladur A GF 30 HF FR 1

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics

Product Description

Flame retardant halogenated PBT reinforced with 30% glass fibre; without PBDE; high flow

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Filled • Flame Retardant	• Good Dimensional Stability • Halogenated	• High Flow
UL File Number	• E86615		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PBT GF30 FR(17)		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.64 g/cm ³	1.64 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	35 cm ³ /10min	35 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.67E+6 psi	11500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	20300 psi	140 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0 %	2.0 %	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)	3.3 ft·lb/in ²	7.0 kJ/m ²	
73°F (23°C)	3.8 ft·lb/in ²	8.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	20 ft·lb/in ²	43 kJ/m ²	
73°F (23°C)	24 ft·lb/in ²	50 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	428 °F	220 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	401 °F	205 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	397 °F	203 °C	ISO 306/B50
--	424 °F	218 °C	ISO 306/A50
Ball Pressure Test (392°F (200°C))	Pass	Pass	IEC 60695-10-2
RTI Elec			UL 746B
0.030 in (0.75 mm)	167 °F	75.0 °C	
0.06 in (1.5 mm)	167 °F	75.0 °C	
0.12 in (3.0 mm)	167 °F	75.0 °C	
RTI Imp			UL 746B
0.030 in (0.75 mm)	167 °F	75.0 °C	
0.06 in (1.5 mm)	167 °F	75.0 °C	
0.12 in (3.0 mm)	167 °F	75.0 °C	
RTI Str			UL 746B
0.030 in (0.75 mm)	167 °F	75.0 °C	
0.06 in (1.5 mm)	167 °F	75.0 °C	
0.12 in (3.0 mm)	167 °F	75.0 °C	

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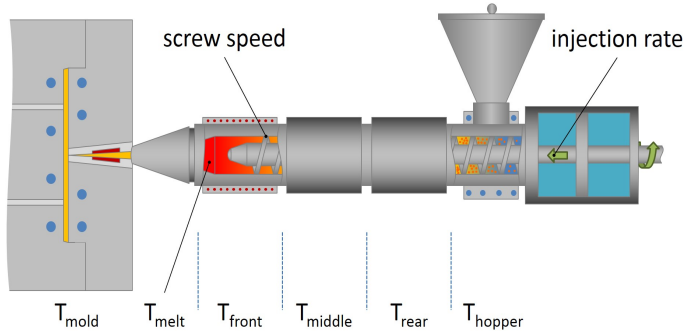
Electrical	Nominal Value (English)		Nominal Value (SI)	Test Method
Electric Strength ¹				IEC 60243-1
73°F (23°C), 0.0394 in (1.00 mm), in Oil	760 V/mil		30 kV/mm	
Comparative Tracking Index (Solution A)	250 V		250 V	IEC 60112
Flammability	Nominal Value (English)		Nominal Value (SI)	Test Method
Flame Rating				
0.030 in (0.75 mm)	V-0		V-0	UL 94 IEC 60695-11-10, -20
0.06 in (1.5 mm)	•	V-0	•	V-0
	•	5VA	•	5VA
0.12 in (3.0 mm)	V-0		V-0	UL 94 IEC 60695-11-10, -20
0.06 in (1.5 mm)	V-0		V-0	IEC 60695-11-10, -20
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)	1250 °F		675 °C	
0.06 in (1.5 mm)	1250 °F		675 °C	
0.12 in (3.0 mm)	1250 °F		675 °C	
Oxygen Index	32 %		32 %	ISO 4589-2
Flammability	0 in/min		0 mm/min	FMVSS 302

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Processing (Melt) Temp	482 to 500 °F	250 to 260 °C
Mold Temperature	158 to 194 °F	70 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

Injection Notes

Mould surface contacting melt should
be of non-corrosive steel (content of chrome > 12%)

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Notes

¹ 2000 V/sec

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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