

Technical Data Sheet



Schulaketon GF 30

Polyketone, Aliphatic
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fiber reinforced aliphatic Polyketone

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PK		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.47 g/cm ³	1.47 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (240°C/2.16 kg)	6.0 cm ³ /10min	6.0 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.13E+6 psi	7800 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	19600 psi	135 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5 %	3.5 %	ISO 527-2/1A/5
Flexural Modulus ¹	986000 psi	6800 MPa	ISO 178
Flexural Stress ¹			ISO 178
4.0% Strain	25400 psi	175 MPa	
3.5% Strain	24700 psi	170 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°F (-40°C)	4.8 ft·lb/in ²	10 kJ/m ²	
73°F (23°C)	6.2 ft·lb/in ²	13 kJ/m ²	
Charpy Unnotched Impact Strength			
-40°F (-40°C)	33 ft·lb/in ²	70 kJ/m ²	ISO 179
73°F (23°C)	33 ft·lb/in ²	70 kJ/m ²	ISO 179/1eU
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	403 °F	206 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	403 °F	206 °C	ISO 306/B50
--	419 °F	215 °C	ISO 306/A50
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 (Solution A)	600 V	600 V	IEC 60112

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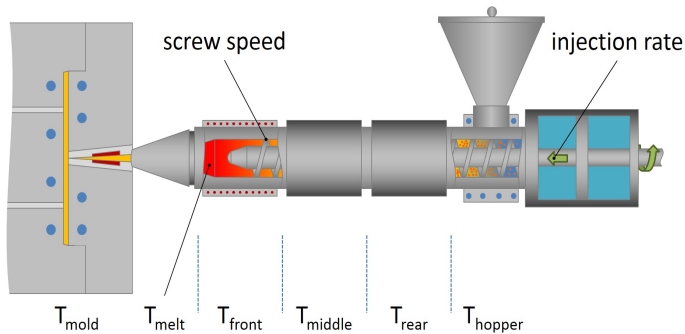
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flame Rating			UL 94
0.06 in (1.6 mm)	HB	HB	IEC 60695-11-10, -20
0.13 in (3.2 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1290 °F	700 °C	
0.12 in (3.0 mm)	1290 °F	700 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1340 °F	725 °C	
0.12 in (3.0 mm)	1340 °F	725 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.15 %	0.15 %
Processing (Melt) Temp	473 to 500 °F	245 to 260 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Injection Notes

Before start, nozzle, screw, barrel and hot-runner have to be cleaned with Polyolefin. Contamination of other material leads to degradation or crosslinking of SCHULAKETON®.

Avoid shut down for more than 15 minutes at moulding temperature, because of degradation and crosslinking of SCHULAKETON®. Purge with Polyolefin!

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Notes

¹ 0.079 in/min (2.0 mm/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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