

Technical Data Sheet



Schulamid RD 6 GF 30

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fiber reinforced compound based on Polyamide 6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Good Dimensional Stability • Good Flow • Good Processability	• Hydrolysis Resistant • Low Density • Low Gloss	• Low Moisture Absorption • Noise Damping • Oil Resistant
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6-I-GF30		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.25 g/cm ³	1.25 g/cm ³	ISO 1183/A
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.26E+6 psi	8700 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	18900 psi	130 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527-2/1A/5
Flexural Modulus	1.02E+6 psi	7000 MPa	ISO 178
Flexural Stress (3.3% Strain)	26100 psi	180 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	4.8 ft·lb/in ²	10 kJ/m ²	
73°F (23°C)	6.7 ft·lb/in ²	14 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	22 ft·lb/in ²	46 kJ/m ²	
73°F (23°C)	27 ft·lb/in ²	56 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	374 °F	190 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	347 °F	175 °C	ISO 306/B50
--	428 °F	220 °C	ISO 306/A50
RTI Elec (0.06 in (1.5 mm))	149 °F	65.0 °C	UL 746B
RTI Imp (0.06 in (1.5 mm))	149 °F	65.0 °C	UL 746B
RTI Str (0.06 in (1.5 mm))	149 °F	65.0 °C	UL 746B
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	0.47 in/min	12 mm/min	ISO 3795
0.0787 in (2.00 mm)	0.47 in/min	12 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

Simulaton data (also for Crash simulation) is available on special request

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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	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

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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