

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			
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.