SCHULAMID® 6 GF 30

Polyamide 6
Engineering Plastics

Product Description			
30% glass fiber reinforced Polyamide 6			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Good Toughness	• High Stiffness	• Oil Resistant
Automotive Specifications	• GM QK 002713 Color: 968001 Black	• IMDS ID 4785294 Color: 968001 Black	
UL File Number	• E86615		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6-GF30		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm³	ISO 1183/A
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% RH	2.0	--	%	
Viscosity Number	145	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.38E+6 (9500)	725000 (5000)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	24700 (170)	14500 (100)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	8.0	%	ISO 527-2/1A/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	4.3 (9.0)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	5.7 (12)	14 (30)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	29 (60)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	38 ft·lb/in² (80 kJ/m²)	No Break	(kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	419 (215)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	392 (200)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature	410 (210)	--	°F (°C)	ISO 306/B50

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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	1.6 (40)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	1.6 (40)	--	in/min (mm/min)	FMVSS 302
Flammability Classification				IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	--		
0.12 in (3.0 mm)	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 in (1.5 mm)	--	1200 (650)	°F (°C)	
0.12 in (3.0 mm)	--	1200 (650)	°F (°C)	

Additional Information

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

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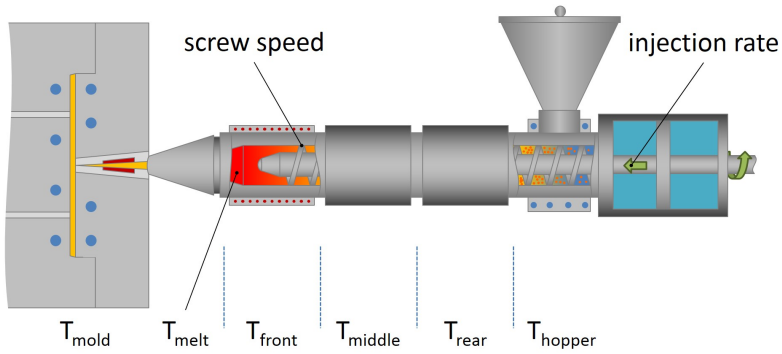

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

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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