

Technical Data Sheet

# SCHULAMID<sup>®</sup> 6 GF 30 FC

Polyamide 6  
Engineering Plastics

**Product Description**  
30% glass fiber reinforced PA 6 for food contact applications

General	
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/cm <sup>3</sup>	ISO 1183/A
Viscosity Number	145	--	cm <sup>3</sup> /g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.28E+6 (8800)	725000 (5000)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	23200 (160)	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/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	6.7 (14)	14 (30)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	29 (60)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	40 ft·lb/in <sup>2</sup> (85 kJ/m <sup>2</sup> )	No Break	(kJ/m <sup>2</sup> )	

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				
0.06 in (1.5 mm)	HB	--		IEC 60695-11-10, -20
0.12 in (3.0 mm)	HB	--		
Glow Wire Flammability Index				
0.06 in (1.5 mm)	--	1200 (650)	°F (°C)	IEC 60695-2-12
0.12 in (3.0 mm)	--	1200 (650)	°F (°C)	

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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.