

SCHULAMID® 66 GF 30 GID

Polyamide 66
Engineering Plastics

Product Description

30% glass fiber reinforced Polyamide 66, optimized for GID-processes

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Balanced Stiffness/Toughness • Oil Resistant • Good Processability • Outstanding Surface Finish
Processing Method	• Gas-Assisted Injection Molding • Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183/A

Viscosity Number	140	--	cm ³ /g	ISO 307
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Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.35E+6 (9300)	783000 (5400)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	25400 (175)	16000 (110)	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 ² (kJ/m ²)	
73°F (23°C)	5.2 (11)	8.6 (18)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	31 (65)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	38 ft·lb/in ² (80 kJ/m ²)	No Break	(kJ/m ²)	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	475 (246)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	428 (220)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	> 482 (> 250)	--	°F (°C)	ISO 306/A50
--	459 (237)	--	°F (°C)	ISO 306/B50



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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	1.2 (30)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	1.2 (30)	--	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	--		



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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	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

These are typical property values not to be construed as specification limits.

