

Technical Data Sheet

# SCHULAMID® 66 GF 50 U

Polyamide 66  
Engineering Plastics

**Product Description**

50% glass fiber reinforced, UV stabilized Polyamide 66

**General**

Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight		
Features	• Crack Resistant • Good Processability • Good Toughness	• Low Moisture Absorption • Medium Viscosity • Oil Resistant	• Ultra High Stiffness • UV Resistant
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm <sup>3</sup>	ISO 1183/A
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% RH	1.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.39E+6 (16500)	1.74E+6 (12000)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	34800 (240)	24700 (170)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.6	3.4	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	6.7 (14)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	8.6 (18)	10 (22)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	No Break		
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	43500 (300)	31900 (220)	psi (MPa)	ISO 2039-1
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	> 482 (> 250)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	> 482 (> 250)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature	> 482 (> 250)	--	°F (°C)	ISO 306/A50 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

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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.