

Technical Data Sheet

# Schulamid 66 GF 50 H

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

50% glass fiber reinforced, heat stabilized Polyamide 66

**General**

Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight		
Features	• Crack Resistant • Good Processability • Good Toughness	• Heat Aging Resistant • Low Moisture Absorption • Medium Viscosity	• Oil Resistant • Ultra High Stiffness
UL File Number	• E86615		
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm <sup>3</sup>	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% Rh	1.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.39E+6 (16500)	1.89E+6 (13000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	33100 (228)	26100 (180)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.3	3.3	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	5.7 (12)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	6.7 (14)	8.6 (18)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	33 (70)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	43 (90)	45 (94)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
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
Deflection Temperature Under Load				
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/B50 ISO 306/A50

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Thermal	Dry	Conditioned	Unit	Test Method
RTI Elec				
0.030 In (0.75 Mm)	248 (120)	--	°F (°C)	UL 746B
0.06 In (1.5 Mm)	248 (120)	--	°F (°C)	
0.12 In (3.0 Mm)	248 (120)	--	°F (°C)	
RTI Imp				
0.030 In (0.75 Mm)	221 (105)	--	°F (°C)	UL 746B
0.06 In (1.5 Mm)	221 (105)	--	°F (°C)	
0.12 In (3.0 Mm)	239 (115)	--	°F (°C)	
RTI Str				
0.030 In (0.75 Mm)	248 (120)	--	°F (°C)	UL 746B
0.06 In (1.5 Mm)	248 (120)	--	°F (°C)	
0.12 In (3.0 Mm)	266 (130)	--	°F (°C)	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·m	IEC 62631-3-1
Comparative Tracking Index	450	--	V	IEC 60112
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				
0.030 In (0.75 Mm)	HB	--		IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	--		
0.12 In (3.0 Mm)	HB	--		
Glow Wire Flammability Index				
0.06 In (1.5 Mm)	1110 (600)	--	°F (°C)	IEC 60695-2-12
0.12 In (3.0 Mm)	1110 (600)	--	°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 %
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.