

# SCHULAMID® 66 GF 35 H

Polyamide 66  
Engineering Plastics

## Product Description

35% glass fiber reinforced, heat stabilized Polyamide 66

## General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight		
Features	• Heat Aging Resistant • High Stiffness	• Medium Viscosity • Oil Resistant	
Automotive Specifications	• FORD WSK-M4D673-A	• GM GMW3038P-PA66-GF35J Color: Natural	• GM QK 003014 H Color: 96.8001 Black
UL File Number	• E86615		
Appearance	• Colors Available		
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm <sup>3</sup>	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% RH	1.5	--	%	
Viscosity Number	145	--	cm <sup>3</sup> /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.60E+6 (11000)	1.04E+6 (7200)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	27600 (190)	18100 (125)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	4.8 (10)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	5.7 (12)	9.5 (20)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	24 (50)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	40 (85)	45 (95)	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
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	475 (246)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature	> 482 (> 250)	--	°F (°C)	ISO 306/B50 ISO 306/A50
Melting Temperature	500 (260)	--	°F (°C)	ISO 11357-3

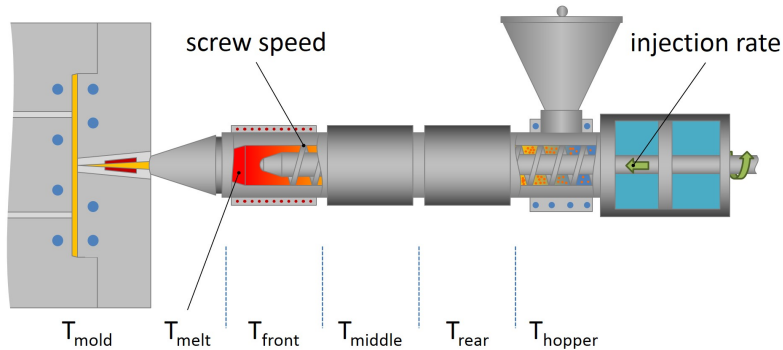
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Thermal	Dry	Conditioned	Unit	Test Method
<b>RTI Elec</b>				
0.030 in (0.75 mm)	248 (120)	--	°F (°C)	UL 746B
0.06 in (1.5 mm)	248 (120)	--	°F (°C)	
0.12 in (3.0 mm)	248 (120)	--	°F (°C)	
<b>RTI Imp</b>				
0.030 in (0.75 mm)	212 (100)	--	°F (°C)	UL 746B
0.06 in (1.5 mm)	221 (105)	--	°F (°C)	
0.12 in (3.0 mm)	239 (115)	--	°F (°C)	
<b>RTI Str</b>				
0.030 in (0.75 mm)	230 (110)	--	°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
Flammability	Dry	Conditioned	Unit	Test Method
<b>Burning Rate</b>				
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
<b>Flammability Classification</b>				
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	--		
<b>Glow Wire Flammability Index</b>				
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.

## 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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