Technical Data Sheet

SCHULAMID® 66 GF 30 HI

Polyamide 66
Engineering Plastics

Product Description
30% glass fiber reinforced, impact modified Polyamide 66

General			
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• High Impact Resistance	• Low Temperature Toughness	• Oil Resistant
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.27	--	g/cm³	ISO 1183/A
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.25E+6 (8600)	812000 (5600)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	21800 (150)	14500 (100)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	5.5	%	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/in² (kJ/m²)	
73°F (23°C)	9.5 (20)	14 (30)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	33 (70)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	38 (80)	43 (90)	ft·lb/in² (kJ/m²)	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	28300 (195)	19600 (135)	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	473 (245)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	> 482 (> 250)	--	°F (°C)	ISO 306/A50
--	464 (240)	--	°F (°C)	ISO 306/B50
Ball Pressure Test (275°F (135°C))	Pass	--		IEC 60695-10-2

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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	550	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate				
0.0787 in (2.00 mm)	1.4 (35)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	1.4 (35)	--	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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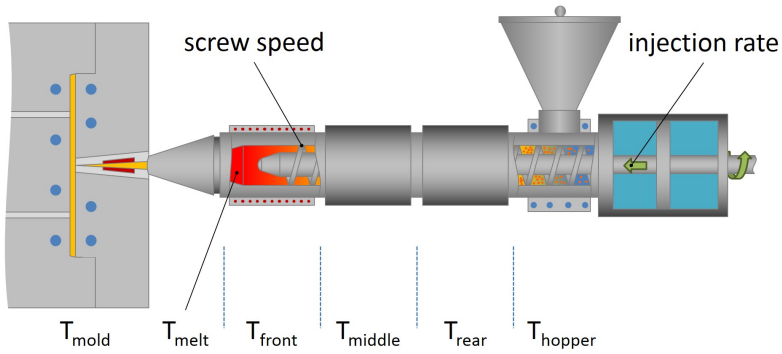

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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