Technical Data Sheet

SCHULAMID® 66 GF 30 FC

Polyamide 66
Engineering Plastics

Product Description
30% glass fiber reinforced PA 66 for food contact applications

General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA66-GF<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.45E+6 (10000)	899000 (6200)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	26100 (180)	16000 (110)	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)	3.3 (7.0)	4.8 (10)	ft·lb/in² (kJ/m²)	
73°F (23°C)	4.8 (10)	8.6 (18)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	29 (60)	19 (40)	ft·lb/in² (kJ/m²)	
73°F (23°C)	34 (72)	43 (90)	ft·lb/in² (kJ/m²)	
Notched Izod Impact Strength				ISO 180/1A
-40°F (-40°C)	4.8 (10)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	3.3 (7.0)	--	ft·lb/in² (kJ/m²)	
Unnotched Izod Impact Strength				ISO 180/1U
-40°F (-40°C)	29 (60)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	31 (65)	--	ft·lb/in² (kJ/m²)	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	31900 (220)	--	psi (MPa)	ISO 2039-1

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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
Ball Pressure Test (284°F (140°C))	Pass	--		IEC 60695-10-2
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
Glow Wire Flammability Index	1110 (600)	--	°F (°C)	IEC 60695-2-12

Additional Information

1.) Not for use in medical or pharmaceutical applications

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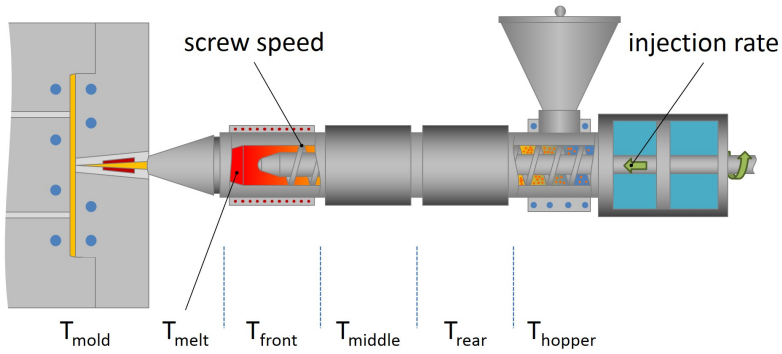

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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