Technical Data Sheet

SCHULAMID® XT 200 GF 50 NATURAL

Polyamide 66
Engineering Plastics

Product Description	
50% glassfiber reinforced Polyamide 66 for high temperature applications, electrically neutral	

General	
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm³	ISO 1183/A
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	2.54E+6 (17500)	1.45E+6 (10000)	psi (MPa)	ISO 527-2/1
Tensile Stress (Break)	33400 (230)	23200 (160)	psi (MPa)	ISO 527-2/5
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2/5
Flexural Modulus	2.18E+6 (15000)	--	psi (MPa)	ISO 178
Flexural Stress [1]				ISO 178
3.6% Strain	50800 (350)	--	psi (MPa)	
3.5% Strain	50800 (350)	--	psi (MPa)	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				
-22°F (-30°C)	6.2 (13)	--	ft·lb/in² (kJ/m²)	ISO 179/1eC
73°F (23°C)	7.1 (15)	9.5 (20)	ft·lb/in² (kJ/m²)	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	43 (90)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	45 ft·lb/in² (95 kJ/m²)	No Break	(kJ/m²)	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 931/30)	46400 (320)	--	psi (MPa)	ISO 2039-1
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	441 (227)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	408 (209)	--	°F (°C)	ISO 75-2/Af
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

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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	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	--		

Additional Information

1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

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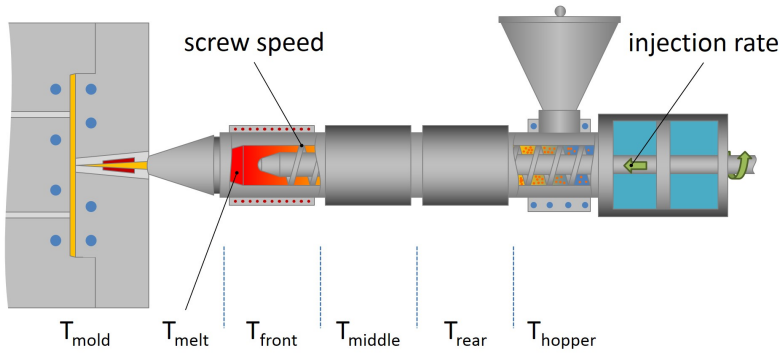

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	518 to 554 °F	270 to 290 °C
Mold Temperature	176 to 248 °F	80 to 120 °C

Notes

[1] 0.079 in/min (2.0 mm/min)

Notes

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