

Technical Data Sheet

SCHULAMID® XT 200 GF 35 BLACK 96.8001

Polyamide 66
Engineering Plastics

Product Description

35% glass fiber reinforced Polyamide 66 for high temperature applications

General

Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.42	1.42	g/cm ³	ISO 1183/A
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.18E+6 (15000)	1.16E+6 (8000)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	30500 (210)	20300 (140)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	7.8	%	ISO 527-2/1A/5
Flexural Modulus	1.84E+6 (12700)	--	psi (MPa)	ISO 178
Flexural Stress ¹				ISO 178
3.5% Strain	50800 (350)	--	psi (MPa)	
3.6% Strain ²	50800 (350)	--	psi (MPa)	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				
-22°F (-30°C)	4.8 (10)	--	ft·lb/in ² (kJ/m ²)	ISO 179/1eC
73°F (23°C)	6.2 (13)	8.6 (18)	ft·lb/in ² (kJ/m ²)	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	33 (70)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	43 ft·lb/in ² (90 kJ/m ²)	No Break	(kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	459 (237)	--	°F (°C)	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	414 (212)	--	°F (°C)	ISO 75-2/A
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

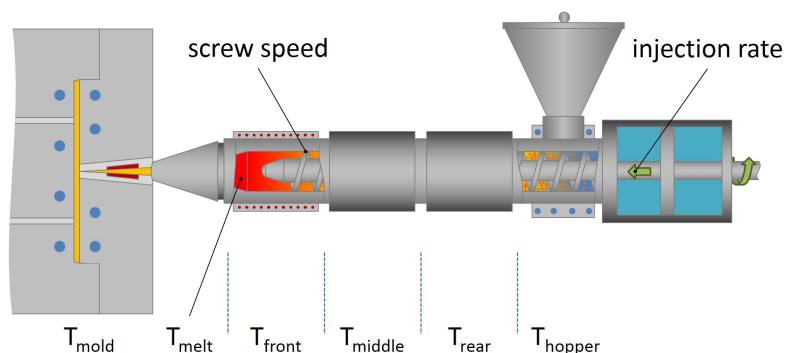
Additional Information

- 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	10 %	10 %
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)

² at Break

Notes

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