HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Technical Data Sheet

SCHULAFORM® 9 A GF 20

Acetal (POM) Copolymer
Engineering Plastics

Product Description			
20% glass fibre reinforced polyoxymethylene			
General			
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Uses	• Agricultural Applications • Building Materials	• Electrical/Electronic Applications • Garden Hose	• Industrial Applications
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.53 g/cm³	1.53 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	4.50 cm³/10min	4.50 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.09E+6 psi	7500 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	16200 psi	112 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527-2/1A/5
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.1 ft·lb/in²	6.5 kJ/m²	
73°F (23°C)	3.3 ft·lb/in²	7.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	25 ft·lb/in²	53 kJ/m²	
73°F (23°C)	22 ft·lb/in²	46 kJ/m²	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 358/30)	26100 psi	180 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	325 °F	163 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	320 °F	160 °C	ISO 75-2/Af
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Burning Rate			
0.0787 in (2.00 mm)	1.3 in/min	34 mm/min	ISO 3795
0.0787 in (2.00 mm)	1.3 in/min	34 mm/min	FMVSS 302
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1160 °F	625 °C	
0.12 in (3.0 mm)	1160 °F	625 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1200 °F	650 °C	
0.12 in (3.0 mm)	1200 °F	650 °C	
Flammability	1 in/min	34 mm/min	FMVSS 302

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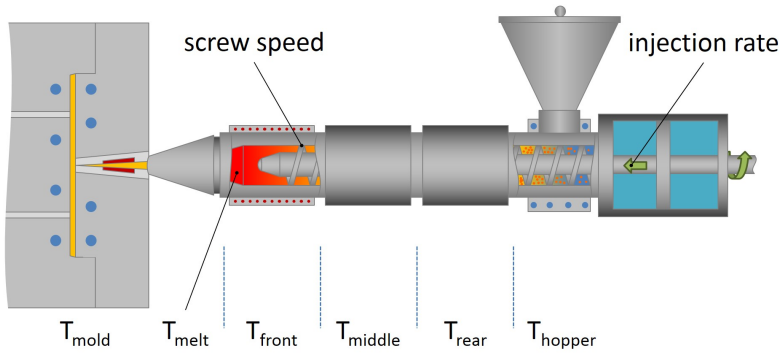

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	392 to 410 °F	200 to 210 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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