Technical Data Sheet

SCHULAFORM® 9 A GF 25

Acetal (POM) Copolymer
Engineering Plastics

Product Description	
25% glass fibre reinforced POM	
General	
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.58 g/cm³	1.58 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	4.00 cm³/10min	4.00 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.31E+6 psi	9000 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	16700 psi	115 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2/1A/5
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1A
-22°F (-30°C)	2.4 ft·lb/in²	5.0 kJ/m²	
73°F (23°C)	2.4 ft·lb/in²	5.0 kJ/m²	
Charpy Unnotched Impact Strength			
-22°F (-30°C)	12 ft·lb/in²	26 kJ/m²	ISO 179/1U
73°F (23°C)	12 ft·lb/in²	26 kJ/m²	ISO 179/1eU
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 358/30)	28300 psi	195 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	327 °F	164 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	320 °F	160 °C	ISO 75-2/Af
Vicat Softening Temperature	309 °F	154 °C	ISO 306/B50
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
Comparative Tracking Index	600 V	600 V	IEC 60112
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
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
--	1160 °F	625 °C	
0.12 in (3.0 mm)	1160 °F	625 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
--	1200 °F	650 °C	
0.12 in (3.0 mm)	1200 °F	650 °C	

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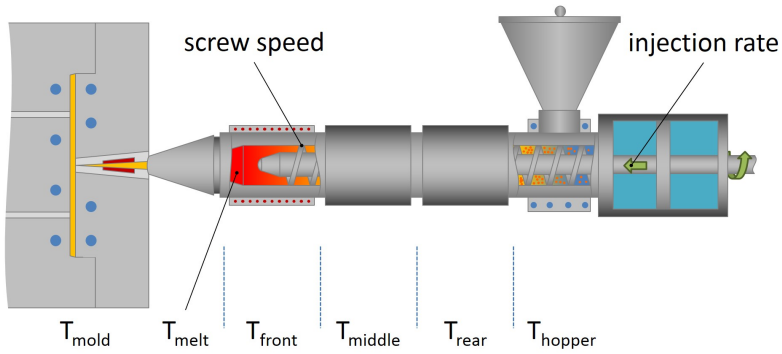

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	374 to 428 °F	190 to 220 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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