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

Technical Data Sheet

SCHULAFORM® 9 A TF 10

Acetal (POM) Copolymer
Engineering Plastics

Product Description			
10% PTFE modified polyoxymethylene			
General			
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	1.46 g/cm³	1.46 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.00 cm³/10min	7.00 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	363000 psi	2500 MPa	ISO 527-2/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	8270 psi	57.0 MPa	
Break	8120 psi	56.0 MPa	
Tensile Strain (Yield)	9.0 %	9.0 %	ISO 527-2/1A/50
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	4.3 ft·lb/in²	9.0 kJ/m²	
73°F (23°C)	4.5 ft·lb/in²	9.5 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	43 ft·lb/in²	91 kJ/m²	
73°F (23°C)	45 ft·lb/in²	95 kJ/m²	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 358/30)	19600 psi	135 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	311 °F	155 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	208 °F	98.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	325 °F	163 °C	ISO 306/A50
--	288 °F	142 °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+14 ohms·m	> 1.0E+14 ohms·m	IEC 62631-3-1

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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	2.0 in/min	50 mm/min	ISO 3795
0.0787 in (2.00 mm)	2.0 in/min	50 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.6 mm)	HB	HB	
0.13 in (3.2 mm)	HB	HB	
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	26 mm/min	FMVSS 302

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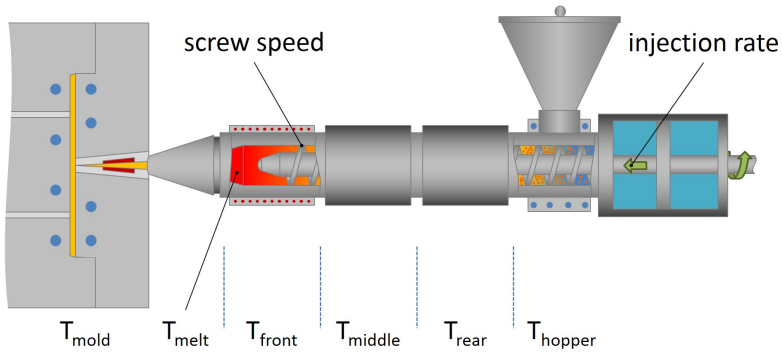

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	392 to 410 °F	200 to 210 °C
Mold Temperature	140 to 248 °F	60 to 120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

Notes

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