Stat-Tech™ ATC-0901001

Acetal (POM) Copolymer

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Features	• Conductive	
Uses	• Automotive Applications • Consumer Applications	• Electrical/Electronic Applications • Industrial Applications
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.39 to 1.43 g/cm³	1.39 to 1.43 g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	1.00 cm³/10min	1.00 cm³/10min	ISO 1133
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus (73°F (23°C))	247000 psi	1700 MPa	ISO 527
Tensile Stress (Yield)	4350 psi	30.0 MPa	ISO 527-2
Tensile Strain (Break)	6.0 %	6.0 %	ISO 527-2
Flexural Modulus	181000 psi	1250 MPa	ISO 178
Flexural Stress	6530 psi	45.0 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
73°F (23°C), Injection Molded	2.4 ft·lb/in²	5.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C), Injection Molded	29 ft·lb/in²	60 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Melting Temperature (DSC)	329 to 338 °F	165 to 170 °C	ISO 3146
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+3 to 1.0E+4 ohms	1.0E+3 to 1.0E+4 ohms	IEC 60093
Volume Resistivity	1.0E+2 to 1.0E+3 ohms·cm	1.0E+2 to 1.0E+3 ohms·cm	IEC 60093
Comparative Tracking Index			IEC 60112
0.126 in (3.20 mm)	600 V	600 V	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Burning Rate (0.126 in (3.20 mm))	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flame Rating (0.13 in (3.2 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	4.0 hr	4.0 hr

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	374 to 410 °F	190 to 210 °C
Mold Temperature	167 to 212 °F	75 to 100 °C

Notes

[1] Typical values are not to be construed as specifications.

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