

Techmer ES Electrablend® POM CO Acetal

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Availability: North America Forms: Pellets Features: Copolymer and Medium Viscosity Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-POM-CO-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Strength	81.4 MPa	11800 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.6 Åµm/m-Å°C	12.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	160 Å°C	320 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Å°C	230 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
	1000 - 1.00e+6 ohm-	1000 - 1.00e+6 ohm-	

Volume Resistivity Electrical Properties	cm Metric	cm English	ASTM D257 Comments
Surface Resistance	1000 - 1.00e+6 ohm	1000 - 1.00e+6 ohm	ASTM D257
Shielding Effectiveness	40 dB @Frequency 3.00e+7 - 1.00e+9 Hz	40 dB @Frequency 3.00e+7 - 1.00e+9 Hz	ASTM D149

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