

Techmer ES Luriblend[®] POM CO X MB Acetal

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

Material Notes:

Availability: North America Forms: Pellets Additive: Lubricant Features: Lubricated, Good Wear Resistance, Low Friction and Copolymer UL

File Number: E157318 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-POM-CO-X-MB-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Water Absorption	1.1 % @Time 86400 sec	1.1 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.016 cm/cm @Thickness 3.17 mm	0.016 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	58.6 MPa	8500 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Strength	81.4 MPa	11800 psi	ASTM D790
Flexural Modulus	0.276 GPa	40.0 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	169 $\text{Å}^\circ\text{C}$	336 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	108 $\text{Å}^\circ\text{C}$	226 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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