

Polyplastics Tepcon M450 Acetal-copolymer (POM), Super High Fluidity, High Cycle

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

Material Notes:

Information provided by PolyPlastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyplastics-Tepcon-M450-Acetal-copolymer-POM-Super-High-Fluidity-High-Cycle.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	63.0 MPa	9140 psi	ISO 527-1, 2
Elongation at Break	27 %	27 %	ISO 527-1, 2
Tensile Modulus	2.80 GPa	406 ksi	ISO 527-1, 2
Flexural Strength	89.0 MPa	12900 psi	ISO 178
Flexural Modulus	2.55 GPa	370 ksi	ISO 178
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ISO 75-1, 2
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60093
Dielectric Strength	19.0 kV/mm	483 kV/in	IEC 60243-1
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

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