

Ensinger Delrin® 150 Homopolymer Acetal (POM)

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

Material Notes:

Ensinger's Delrin® 150 stock shapes are a homopolymer acetal manufactured using DuPont Delrin 150 Resin. It is a crystalline plastic which offers an excellent balance of properties to bridge the gap between metals and plastics. It possesses high tensile and flexural properties, along with creep resistance and toughness, while exhibiting low moisture absorption, and fatigue endurance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Delrin-150-Homopolymer-Acetal-POM.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Water Absorption	0.25 %	0.25 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Water Absorption at Saturation	0.90 %	0.90 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	94	94	ASTM D785
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Compressive Strength	35.9 MPa	5200 psi	ASTM D695
Izod Impact, Unnotched	0.80 J/cm	1.5 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.20	0.20	40 psi, 50 fpm; ASTM D3702
K (wear) Factor	111 x 10 ⁻⁸ mm ³ /N-M	55.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	ASTM D3702
Limiting Pressure Velocity	0.0513 MPa-m/sec	1460 psi-ft/min	ASTM D792

Thermal Properties	Metric	English	Comments
CTE, linear	122 µm/m-°C	68.0 µin/in-°F	ASTM D696

Melting Point Thermal Properties	175 °C Metric	347 °F English	ASTM D2133 Comments
Maximum Service Temperature, Air	85.0 °C	185 °F	Continuous; UL746B
	149 °C	300 °F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	169 °C	336 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	ASTM D648
Flammability, UL94	HB	HB	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.7 @Frequency 60.0 Hz	3.7 @Frequency 60.0 Hz	50% RH; ASTM D150
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149
Dissipation Factor	0.0050 @Frequency 60.0 Hz	0.0050 @Frequency 60.0 Hz	ASTM D150

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