

Westlake Plastics Pomalux® CN-SS Acetal Copolymer (conductive)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Steel Filled

Material Notes:

Stainless-steel-fiber-filled, non-sloughing, dimensionally stable material HDT @ 264 psi of 225F. This material has relatively high chemical resistance, is extremely strong and stiff, and is an excellent choice for situations where carbon-based conductive fillers are not acceptable.

Easily machined with carbide-tipped tooling to tight tolerances. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Pomalux-CN-SS-Acetal-Copolymer-conductive.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	ASTM D2240
Tensile Strength, Yield	59.3 MPa	8600 psi	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm	0.700 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	88.2 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	49.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	107 °C	225 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	Dry; ASTM D257
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	Dry; ASTM D257

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