

Westlake Plastics Pomalux® Acetal Copolymer For Medical Applications

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

Material Notes:

Medical grade Pomalux is made from acetal copolymer resin which allows machined products the ability to retain dimensional integrity, maintain stability in water and most chemicals at elevated temperatures. Pomalux products are opaque and are available in a wide array of standard colors as well as on a custom basis. Recommended sterilization techniques for Pomalux include EtO gas and steam autoclaving. Disinfectants and germicides generally have no effect on Pomalux, however, acidic solutions can degrade the polymer. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Pomalux-Acetal-Copolymer-For-Medical-Applications.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.22 %	0.22 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	78	78	ASTM D785
Tensile Strength, Yield	60.7 MPa	8800 psi	ASTM D638
Elongation at Break	75 %	75 %	ASTM D638
Tensile Modulus	2.62 GPa	380 ksi	ASTM D638
Flexural Yield Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.59 GPa	375 ksi	ASTM D790
Compressive Strength	31.0 MPa	4500 psi	1% deflection; ASTM D695
	110 MPa	16000 psi	10% deflection; ASTM D695
Fatigue Strength	27.6 MPa	4000 psi	Fatigue Endurance; ASTM D 671
Shear Strength	53.1 MPa	7700 psi	ASTM D732
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256
Tensile Impact Strength	189 kJ/m ²	90.0 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 - 110 µm/m-°C	45.0 - 61.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Conductivity Thermal Properties	0.231 W/m-K Metric	1.60 BTU-in/hr-ft²-°F English	ASTM C177 Comments
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648
Flammability, UL94	HB @Thickness 15.2 mm	HB @Thickness 0.600 in	

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