Pomalux® Medical

Acetal (POM) Copolymer

Westlake Plastics Company

Message:

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 а wide array of standard colors as well as on а 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. Westlake Plastics Company manufactures all acetal extruded & compression molded sheets, plates and rods in accordance to ASTM D6100. This specification covers requirement and test methods for the material, dimensions, workmanship and the properties of extruded and compression molded

sheets, plates and rods. Applications Include: Provisional trials Instrument handles Medical device components Advantages of Medical Grade Pomalux: Lot controlled and traceable Resin complies with FDA regulations 21 CFR 177.2470 and 21 CFR 178.3297 for colorants Resin meets the requirements of USP Class VI specifications Stress relieved Laser

markable

General Information	
Features	Autoclave Sterilizable
	Copolymer
	Ethylene Oxide Sterilizable
	Food Contact Acceptable
	Good Chemical Resistance
	Good Dimensional Stability
	Laser Markable
	Steam Sterilizable

Agency Ratings	FDA 21 CFR 177.2470
	FDA 21 CFR 178.3297
	USP Class VI
Appearance	Black
	Blue
	Brown

Colors Available Dark Green

Grey Light Blue Light Green

Opaque

Red

Yellow

Forms

ns Film Rod Sheet Slab

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm³	ASTM D792
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	78		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2620	MPa	ASTM D638
Tensile Strength (Yield)	60.7	MPa	ASTM D638
Tensile Elongation (Break)	75	%	ASTM D638
Flexural Modulus	2590	MPa	ASTM D790
Flexural Strength (5.0% Strain)	89.6	MPa	ASTM D790
Compressive Strength			ASTM D695
1% Strain	31.0	MPa	
10% Strain	110	MPa	
Shear Strength	0.0531	MPa	ASTM D732
Fatigue Limit (1.0E+7 Cycles)	27.6	MPa	ASTM D671
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
Tensile Impact Strength	189	kJ/m²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load	ASTM D648		
0.45 MPa, Unannealed	158	°C	
1.8 MPa, Unannealed	110	°C	
CLTE - Flow	8.1E-5 to 1.1E-4	cm/cm/°C	ASTM D696
Thermal Conductivity	0.23	W/m/K	ASTM C177
Flammability	Nominal Value		Test Method
Flame Rating (15.2 mm)	НВ		UL 94

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