



POMALUX® ACETAL COPOLYMER

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. 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 manufactures all acetal extruded and 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.

The following physical property information is based on typical values of the base acetal copolymer resin.

Applications Include:

- Provisional trials
- Instrument handles
- Medical device components

Advantages of Pomalux:

- Lot controlled and traceable
- Resin complies with FDA regulations 21 CFR 177.2470
- Resin meets the requirements of ISO 10993 and USP VI
- Stress relieved
- Laser markable

Manufacturing Capabilities:

- **Standard Rod :**
colors dia. 1" to 3 1/2" (1/2" increments)
black dia. 1" to 4" (1/4" increments)
natural dia. 1", 1 1/2", 2", 2 1/2", 3"
- **Rod Length:**
1 to 2" diameter - 96"
2 1/2" to 4" diameter - 48"

Non Standard

- **Rod:** 3/4" and >3 1/2" to 6" dia.
- **Sheet:** .060" to 3/16" thick
- **Slab:** 1/4" to 4" thick
- **Film:** .002" to .029" thick

Colors/Grades:

- Black
 - Dark blue
 - Gray
 - Light green
 - Rust
 - Brown
 - Dark green
 - Light blue
 - Red
 - Yellow
- Colors available on a custom basis

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

Property	Units	Test Standard	Unfilled
Mechanical			
Compressive Strength @10% deflection	psi	ASTM D695	16,000
Flexural Modulus	psi	ASTM D790	375,000
Hardness	M Scale	ASTM D785	M78
Izod Impact Strength Notched @-40°F	ft•lbs/in	ASTM D256	1.2
Notched @-73°F	ft•lbs/in	ASTM D256	1.5
Tensile Elongation @break @-40°F	%	ASTM D638	30.0
@73°F	%	ASTM D638	75.0
Tensile Modulus	psi	ASTM D638	357,000
Tensile Strength @yield @73°F	psi	ASTM D638	8,800
@-40°F	psi	ASTM D638	13,700
Thermal			
Coefficient of Thermal Expansion	in/in/°F	ASTM D696	1.2x10 ⁻⁴
Flammability Rating @.060"	—	UL94	HB
Heat Deflection Temperature @264 psi	°F	ASTM D648	230
Thermal Conductivity	cal/sec/cm ² /°C/cm	ASTM C177	1.6
Other			
Specific Gravity	—	ASTM D792	1.41
Water Absorption @24 hours	%	ASTM D570	0.20

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