

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 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.

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

	Units	ASTM Test	Result
Mechanical			
Compressive Strength			
@1% deflection	psi	D695	4,500
@10% deflection	psi	D695	16,000
Fatigue Endurance (limit @10 ⁷ cycles)	psi	D671	4,000
Flexural Modulus	psi	D790	375,000
Flexural Yield Strength @5% deform.	psi	D790	13,000
Hardness-Rockwell	—	D785	M78
Izod Impact Strength			
Notched @73°F	ft•lbs/in	D256	1.5
Shear Strength	psi	D732	7.7
Tensile Elongation @break	%	D638	75.0
Tensile Impact	ft•lbs/in ²	D1822	90
Tensile Modulus	psi	D638	380,000
Tensile Strength @yield	psi	D638	8,800
Thermal			
Coefficient of Thermal Expansion	in/in/°F	D696	4.5 to 6.1x10 ⁻⁵
Heat Deflection Temperature			
@66 psi	°F	D648	316
@264 psi	°F	D648	230
Thermal Conductivity	(BTU•in)/(hr•ft ² •°F)	C177	1.6
Flammability Rating-UL94 @0.60"	—	—	HB
Other			
Specific Gravity	—	D792	1.41
Water Absorption @24 hours	%	D570	0.22

Westlake Product Bulletin



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

Manufacturing Capabilities:

Standard:

- Rod:** 1" to 4" diameter-colors (1/2" increments)
1" to 4" diameter-black (1/4" increments)

Rod lengths: 1" to 2" diameter - 96"
2 1/2" to 4" diameter - 48"

Non-Standard:

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

Colors/Grades:

Standard: Black, brown, dark blue, dark green, gray, light blue, light green, red, rust and yellow.

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

WESTLAKE

PLASTICS COMPANY

World Headquarters
P.O. Box 127, Lenni, PA 19052
1-800-999-1700 • Fax: (610) 459-1084

www.westlakeplastics.com

West Coast Office
377 E. Chapman Ave., Suite 120, Placentia, CA 92870
1-800-440-0597 • Fax: (714) 961-0978

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