

Pomalux®

(acetal copolymer)

Pomalux is a high-performance acetal copolymer that has excellent mechanical, electrical, and wear properties. It is engineered to provide outstanding dimensional stability, even when machining parts with complex geometries. Pomalux is an excellent choice for many bearing and wear applications since it has low coefficient of friction and wears well in both wet and dry environments. It is widely used for assembly jigs and fixtures because of its inherent dimensional stability and excellent wear properties. Pomalux is often specified for electrical applications when low moisture absorption and high dielectric strength are required. Both natural (white) and black Pomalux are **FDA compliant** for use in food processing machinery.



Pomalux Impeller

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

	Units	ASTM Test	Unfilled	25% GF
Mechanical				
Compressive Strength				
@10% deflection	psi	D695	16,000	—
Flexural Modulus	psi	D790	375,000	1,050,000
Hardness-Rockwell	—	D785	M80	M80
Izod Impact Strength				
Notched @-40°F	ft•lbs/in	D256	1.2	—
Notched @73°F	ft•lbs/in	D256	1.5	1.1
Tensile Elongation @break				
@-40°F	%	D638	30.0	—
@73°F	%	D638	75.0	—
Tensile Modulus	psi	D638	410,000	1,200,000
Tensile Strength @yield				
@73°F	psi	D638	8,800	16,000
@-40°F	psi	D638	13,700	23,100
Thermal				
Coefficient of Thermal Expansion	in/in/°F	D696	4.7x10 ⁻⁵	2.2x10 ⁻⁵
Flammability Rating-UL94 @.060"	—	—	HB	—
Heat Deflection Temperature				
@66 psi	°F	D648	315	—
@264 psi	°F	D648	219	322
Thermal Conductivity	(BTU•in)/(hr•ft ² •°F)	C177	1.6	—
Other				
Specific Gravity	—	D792	1.41	1.58
Water Absorption @24 hours	%	D570	0.22	0.29

Applications Include:

- Jigs and fixtures
- Pump and valve parts
- Bushings
- Bearings
- Gears
- Wear pads
- Electrical components

Advantages of Pomalux:

- High strength and stiffness
- Low friction
- Easy to machine
- Good dimensional stability
- Low moisture absorption
- Resists abrasive wear in both wet and dry environments
- Good chemical resistance
- Excellent electrical properties
- FDA compliant

Manufacturing Capabilities:

- Rod:** 1/8" to 8" diameter
- Sheet:** .030" to 6" thick
- Film:** .002" to .029" thick

Colors/Grades:

- Natural (white) **FDA**
- Black **FDA**
- Glass-filled
- PTFE-filled (Dielux)
- Non-standard colors are 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.



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