



## General Purpose - Acetal

**WESTLAKE**  
PLASTICS COMPANY

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

#### 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

	Units	ASTM Test	Unfilled	25% GF
<b>Mechanical</b>				
Flexural Modulus	psi	D790	370,000	1,050,000
Hardness-Rockwell	—	D785	M80	M84
Izod Impact Strength				
Notched @-40°F	ft•lbs/in	D256	1.2	0.7
Notched @73°F	ft•lbs/in	D256	1.5	1.1
Tensile Elongation @break				
@-40°F	%	D638	—	2.0
@73°F	%	D638	—	3.5
@160°F	%	D638	—	5.0
Tensile Modulus psi D638			380,000	1,200,000
Tensile Strength @yield				
@73°F	psi	D638	—	16,000
@-40°F	psi	D638	8,600	23,100
@160°F	psi	D638	—	10,000
<b>Thermal</b>				
Continuous Use Temp.	°F	D794	212	—
Coefficient of Thermal Expansion	in/in/°F	D696	—	2.2x10 <sup>-5</sup>
Flammability Rating-UL94 @.060"	—	—	HB	—
Heat Deflection Temperature				
@66 psi	°F	D648	315	331
@264 psi	°F	D648	219	325
<b>Other</b>				
Specific Gravity	—	D792	1.40	1.62
Water Absorption @24 hours	%	D570	0.20	0.27
Dielectric Constant	1e+006 Hz	D150	3.80	—

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