Pomalux® Unfilled

Acetal (POM) Copolymer

Westlake Plastics Company

Message:

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. 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:

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

General Information	
Features	Copolymer
	Food Contact Acceptable
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Dimensional Stability
	Good Electrical Properties
	Good Wear Resistance
	High Stiffness
	High Strength
	Low Friction
	Low Moisture Absorption
	Machinable
Uses	Bearings

Bushings

Electrical Parts

Electrical/Electronic Applications

Gears

Pump Parts

Valves/Valve Parts

Agency Ratings	FDA Food Contact, Unspecified Rating		
Appearance	Black		
	Natural Color		
	White		
Forms	Film		
	Rod		
	Sheet		
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)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2830	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, -40°C	94.5	MPa	
Yield, 23°C	60.7	MPa	
Tensile Elongation			ASTM D638
Break, -40°C	30	%	
Break, 23°C	75	%	
Flexural Modulus	2590	MPa	ASTM D790
Compressive Strength (10% Strain)	110	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	64	J/m	
23°C	80	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	157	°C	
1.8 MPa, Unannealed	104	°C	
CLTE - Flow	8.5E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.23	W/m/K	ASTM C177
Flammability	Nominal Value		Test Method
Flame Rating (1.52 mm)	НВ		UL 94

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