

Pomalux® 25% GF

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 | |
|------------------------|----------------------------------|
| Filler / Reinforcement | Glass Fiber,25% Filler by Weight |
| 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 | 1.58 | g/cm ³ | ASTM D792 |
| Water Absorption (24 hr) | 0.29 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (M-Scale) | 80 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 8270 | MPa | ASTM D638 |
| Tensile Strength | | | ASTM D638 |
| Yield, -40°C | 159 | MPa | |
| Yield, 23°C | 110 | MPa | |
| Flexural Modulus | 7240 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 59 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 161 | °C | ASTM D648 |
| CLTE - Flow | 4.0E-5 | cm/cm/°C | ASTM D696 |

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