



P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

Pomalux® WR



Pomalux WR (Wear resistant polyoxymethylene copolymer) is made from resin that is suitable for use in certain food contact applications, contact your local Westlake Plastics representative for specific regulatory declarations. Pomalux WR is an internally lubricated acetal copolymer. It offers enhanced wear resistance and lower coefficients of friction compared to standard acetal using a PFOA free permanent lubricant. Pomalux WR offers comparable wear and friction performance to PTFE filled POMc without the risk of voids and inclusions that are commonly associated with compression molded and extruded PTFE filled POMc. Similar to unfilled copolymer acetal, Pomalux WR offers high strength and stiffness and good chemical resistance making it an ideal material for load bearing and transmitting components where enhanced wear and low friction performance are critical performance requirements such as gears, bearing, chain guides and other conveyor components. Product is available in natural (off white) and black. Other colors are available on a make to order basis.

INDUSTRY



Automotive



Engineering



Food Processing

COLORS AVAILABLE



Black



Natural

ATTRIBUTES

| | | |
|--|---------------------|---|
| | Strength | ✓ |
| | Wear Resistance | ✓ |
| | Easy to Machine | ✓ |
| | Stiffness | ✓ |
| | Food Contact | ✓ |
| | Chemical Resistance | ✓ |

SHAPES

| | |
|-------------------|---|
| Compression Sheet | ✓ |
| Extruded Rod | ✓ |



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TYPICAL PROPERTIES

| PROPERTY | TEST STANDARD | ENGLISH UNITS | METRIC UNITS |
|----------------------------------|---------------------|----------------------------|--------------|
| Mechanical | | | |
| Tensile Strength @ Yield | ASTM D638 | 9.05 kpsi | 62.4 MPa |
| Tensile Strength @ Break | ASTM D638 | 37% | 37% |
| Izod Impact Resistance - Notched | ASTM D256 | 1.23 ft-lb/in | 65.5 J/m |
| Izod Impact Strength - Notched | ASTM D256 | 3.07 ft-lb/in ² | 163.8 J/m |
| Flexural Modulus | ASTM D790 | 352 kpsi | 2430 MPa |
| Flexural Strength | ASTM D790 | 11.6 kpsi | 80 MPa |
| Moisture Absorption (24 hrs) | ISO 62 | 0.02% | 0.02% |
| Thermal | | | |
| HDT @ 1.8 MPa (264 psi) | ASTM D648 | 252 °F | 122 °C |
| Other | | | |
| K Factor | ASTM D3702 Modified | 32.6 10-10in5min/ft-lb-hr | |
| COF Static | ASTM D3702 Modified | 0.33 | |
| COF Dynamic | ASTM D3702 Modified | 0.45 | |

*Data above is based on testing of machined test specimens made from extruded bar stock



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PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

| | | | | | |
|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| 2.25" (57.15mm) | 2.5" (63.5mm) | 2.75" (69.85mm) | 3.0" (76.2mm) | 3.25" (82.55mm) | 3.5" (88.9mm) |
|-----------------|---------------|-----------------|---------------|-----------------|---------------|

Rods: 96"L (244cm)

| | | | | | |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| 0.5" (12.7mm) | 0.75" (19.05mm) | 1.0" (25.4mm) | 1.25" (31.75mm) | 1.5" (38.1mm) | 1.75" (44.45mm) |
| 2.0" (50.8mm) | | | | | |

Compression Sheets: 24"W x 48"L (61cm x 122cm)

| | | | | | |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| 0.5" (12.7mm) | 0.75" (19.05mm) | 1.0" (25.4mm) | 1.25" (31.75mm) | 1.5" (38.1mm) | 1.75" (44.45mm) |
| 2.0" (50.8mm) | | | | | |

Compression Sheets: 48"W x 96"L (122cm x 244cm)

| | | | | | |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| 0.5" (12.7mm) | 0.75" (19.05mm) | 1.0" (25.4mm) | 1.25" (31.75mm) | 1.5" (38.1mm) | 1.75" (44.45mm) |
| 2.0" (50.8mm) | | | | | |

Compression Sheets: 48"W x 120"L (122cm x 305cm)

| | | | | | |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| 0.5" (12.7mm) | 0.75" (19.05mm) | 1.0" (25.4mm) | 1.25" (31.75mm) | 1.5" (38.1mm) | 1.75" (44.45mm) |
| 2.0" (50.8mm) | | | | | |

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