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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



Food Contact



Chemical Resistance



Stiffness



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)
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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)					

LAST REVISED: 01/30/2025

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