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

Pomalux® WRX

Pomalux WRX (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 WRX is an internally lubricated acetal copolymer. It offers enhanced wear and abrasion resistance and lower coefficients of friction compared to Pomalux WR and is similarly formulated with a PFOA free permanent lubricant. Pomalux WRX offers enahnced wear and friction performance versus PTFE filled POMc without the risk of voids and inclusions that are commonly associated with compression molded and extruded PTFE filed POMc. Pomalux WRX offers high strength and stiffness and good chemical resistance making it an ideal material for load bearing and transmitting components where enhanced wear, abrasion 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

- Chemical Resistance
- Wear Resistance
- Stiffness
- Strength
- Food Contact

SHAPES

- Extruded Slab
- Extruded Rod

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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Tensile Strength @ Yield	ASTM D638	8 kpsi	55 MPa
Izod Impact Resistance - Notched	ASTM D256	0.76 ft-lb/in	40.5 J/M
Izod Impact Strength - Notched	ASTM D256	1.90 ft-lb/in^2	101.4 J/M
Flexural Modulus	ASTM D790	351 kpsi	2423 MPa
Moisture Absorption (24 hrs)	ISO 62	0.22 %	0.22 %
Thermal			
HDT @ 1.8 MPa (264 psi)	ASTM D648	190 °F	87.7 °C
Other			
K Factor	ASTM D3702 Modified	3.0 10-10in5min/ft-lb-hr	
COF Static	ASTM D3702 Modified	0.30	
COF Dynamic	ASTM D3702 Modified	0.26	

*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" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)	1.75" (44.45mm)
2.0" (50.8mm)					

Extruded Slabs: 24"W (61cm)

0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)

LAST REVISED: 08/28/2025

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