

Westlake Dielux®

Acetal (POM) Copolymer

Westlake Plastics Company

Message:

Dielux PTFE filled acetal copolymer is an outstanding bearing and wear material for use in both wet and dry environments. Dielux is frequently used in place of traditional metal bearing materials when low friction, excellent wear properties, and good dimensional stability are required. The PTFE filler allows Dielux to be used without additional lubricants in applications where grease and oil are undesirable. The white grade of Dielux is FDA compliant for use in food processing machinery.

Applications Include:

Bearings
Bushings
Wear pads
Gears

Advantages of Dielux:

Excellent wear properties in both wet and dry environments
Low friction
Low moisture absorption
Good chemical resistance
Good dimensional stability
High strength and stiffness
Easy to machine
FDA compliant (white only)

General Information	
Additive	PTFE Lubricant
Features	Copolymer Food Contact Acceptable Good Chemical Resistance Good Dimensional Stability Good Wear Resistance High Stiffness High Strength Low Friction Low Moisture Absorption Lubricated Machinable
Uses	Bearings Bushings Gears
Agency Ratings	FDA Food Contact, Unspecified Rating 2
Appearance	Brown White
Forms	Rod

Sheet

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	46.9	MPa	ASTM D638
Tensile Elongation (Break)	22	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength (Yield)	65.5	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
Dynamic ¹	0.24		
Static ²	0.13		
Wear Factor	20	10 ⁻⁸ mm ³ /N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	84.4	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ³	0.45	kV/mm	
NOTE			
1.	40 psi, 50 fpm		
2.	40 psi		
3.	FED.T.M.ST.406BM4031		

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