

Dielux®

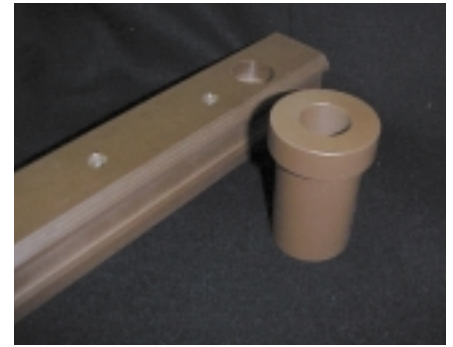
(acetal copolymer - PTFE filled)

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 and plastic 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.

The following physical property information is based on typical values of the base PTFE filled acetal copolymer resin.

	Units	ASTM Test	Result
Mechanical			
Flexural Modulus	psi	D790	320,000
Flexural Strength @yield	psi	D790	9,500
Izod Impact Strength			
Notched @73°F	ft•lbs/in	D256	0.90
Tensile Elongation @break	%	D638	12.0-15.0
Tensile Strength @yield	psi	D638	6,500
Thermal			
Heat Deflection Temperature @264 psi	°F	D648	210
Electrical			
Dielectric Strength	v/m	FED.T.M.ST.406BM4031	450,000
Tribological			
Coefficient of Friction			
Dynamic	40 psi, 50 fpm	LNP #3	0.15
Static	40 psi	LNP #3	0.07
Wear Factor (K)	10 ⁻¹⁰ in ⁵ -min/ftlb-hr	LNP #3	11
Other			
Specific Gravity	—	D792	1.50
Water Absorption @24 hours	%	D570	0.15

Westlake Product Bulletin



Applications Include:

- Bearings
- Bushings
- Slide 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)

Manufacturing Capabilities:

- Rod:** 1/4" to 8" diameter
Sheet: 1/4" to 6" thick

Colors/Grades:

- Brown (standard)
White (FDA compliant)

*In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

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