



HYDLAR® Z

Characteristics

- * Excellent Wear Resistance
- * Good Machinability
- * High P.V.Limit
- * Minimizes Galling to Mating Wear Surface

Description

Hydlar® Z material combines the properties of Nylon with the strength and wear resistance of Kevlar® aramid fibers. The resulting material is strong, tough, and has excellent wear resistance --- up to 20 times that of standard nylon. Hydlar's strong reinforcing material makes the end product extremely wear resistant without excessive galling to the mating wear surface.

Forms Available

PLATE .125" to 2.000" thick, Widths to 48", Lengths to 96"
 COLOR Black and Natural

Typical Property Values

MECHANICAL @ 73°F

Specific Gravity	
Tensile Strength	psi
Tensile Modulus of Elasticity	psi
Tensile Elongation (at Break)	%
Flexural Strength	psi
Flexural Modulus of Elasticity	psi
Shear Strength	psi
Compressive Strength, 10% Deformation	psi
Compressive Modulus of Elasticity	psi
Shore Hardness	D Scale
Izod Impact Strength, Notched	ft-lbs/in. of notch
Coefficient of Friction, Dynamic (Dry vs. Steel)	
Limiting PV (4 :1 Safety Factor Applied)	ft.lbs/in. ² min
Wear Factor	in ³ -min/ft.lbs. hr.
Water Absorption 24 hrs	% by wt.

THERMAL

Coefficient of Linear Expansion (-40°F to 300°F)	in./in./°F
Heat Deflection Temperature @264 psi	°F
Melting Point (Crystalline)	°F
Continuous Service Temperature in Air	°F
Thermal Conductivity	°F

ELECTRICAL

Dielectric Strength, Short Term	Volts/mil
Volume Resistivity	Ohms-cm
Dielectric Constant	1 MHz
Dissipation Factor	1 MHz

Hydlar®

1.16
16,000
1,300,000
4
23,000
900,000
19,300
2.70
128 to 79
0.80
1.6 x 10 ⁻⁵
470
300
2,000
2.50
0.0016

(Properties listed above are provided for reference only, they should not be used for design specifications or quality control , Hydlar is a registered Trademark of A.L.Hyde Corp.)

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