



HALAR® ECTFE

Characteristics

- * Excellent in Corrosive Environments
- * Flame Resistant
- * High Purity
- * Impact Resistant
- * Low Water Absorption

Description

Halar is an ideal plastic to use in corrosive chemical environments. It is mechanically both strong and tough, exhibiting high dielectric strength and can be used in applications over a broad temperature range. Characteristically it offers extremely low permeability to liquids, gases, and vapors along with being flame resistant.

Forms Available

PLATE .125" to 2.000" thick, Widths to 48", Lengths to 96"
 COLOR Opaque

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

Halar® ECTFE

1.68
7,800
240,000
5
6,800
245,000
75
No Break
<0.10
5.6 x 10 ⁻⁵
145
464
300
500
10 ⁻¹⁵
2.50

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

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