



PRODUCT CAPABILITIES:

- Rod : 1/8" - 2"
- Sheet : 1/16" - 2"

PRODUCT COLORS:

- White

ADVANTAGES:

- Excellent Corrosion And Chemical Resistance
- Good Thermal Stability
- Nylon-Like Durability with Excellent Mechanical Properties
- Excellent Impact Strength
- Extremely Low Permeability To Liquids, Gases And Vapors

APPLICATIONS INCLUDE:

- Solid And Lined Pipe
- Fittings
- Pump And Valve Components
- Filter Housings
- Components For Wet Process Stations
- Tanks And Tank Linings

GENERAL PROPERTIES	ASTM or UL Test	HALAR® ECTFE Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.68
Water Absorption, 24 hrs (%)	D570	<0.1
MECHANICAL		
Tensile Strength (psi)	D638	7,800
Tensile Elongation (%)	D638	250
Flexural Modulus (psi)	D790	245,000
Compressive Strength (psi)	D695	–
Hardness, Shore D	D2240	D75
IZOD Notched Impact (J/m)	D256	No Break
Coefficient of Friction	B1894	0.19
Deformation under Load 23°C, 1000psi, 24hr (%)	D621	–
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	–
Heat Deflection Temp (°F / °C) @ 66 psi	D648	194 / 90
Melting Temp (°F / °C)	D3418	464 / 240
Max Operating Temp (°F / °C)	–	300 / 149
Thermal Conductivity (W/m°C)	–	0.15
Flammability Rating	UL94	V-O
ELECTRICAL		
Dielectric Strength (kV/mil)	D149	2,000
Dielectric Constant at 10 ³ Hz	D1531	2.5
Dissipation Factor at 10 ³ Hz	D1531	0.0016
Volume Resistivity (ohm-cm) at 50% RH	D257	10 ¹⁶
Arc Resistance (sec)	D495	–

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.