



TYPICAL PROPERTIES of HALAR®		
ASTM or UL test	Property	Halar® ECTFE
PHYSICAL		
D792	Density (lb/in ³)	0.061
	(g/cm ³)	1.68
D570	Water Absorption, 24 hrs (%)	< 0.1
MECHANICAL		
D638	Tensile Strength (psi)	7,000
D638	Tensile Modulus (psi)	240,000
D638	Tensile Elongation at Break (%)	200
D790	Flexural Strength (psi)	-
D790	Flexural Modulus (psi)	240,000
D695	Compressive Strength (psi)	-
D695	Compressive Modulus (psi)	-
D2240	Hardness, Rockwell	R93
D256	IZOD Notched Impact (ft-lb/in)	No Break
THERMAL		
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	5.6
D648	Heat Deflection Temp (°F / °C) at 264 psi	240 / 115
D3418	Melting Temp (°F / °C)	460 / 238
-	Max Operating Temp (°F / °C)	300 / 149
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F)	1.09
	(x 10 ⁻⁴ cal/cm-sec-°C)	3.75
	Flammability Rating	V-O
UL94	Flammability Rating	V-O
ELECTRICAL		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	500
D150	Dielectric Constant at 1 MHz	2.5
D150	Dissipation Factor at 1 MHz	-
D257	Volume Resistivity (ohm-cm) at 50% RH	10 ¹⁵

Data provided is for reference purposes only. Additional testing may be required for design specifications or quality control. All values at 73°F unless otherwise stated.

