

## Westlake Plastics ECTFE Film Made from HALAR® Ethylene-chlorotrifluoroethylene Resin

Category : Polymer , Film , Thermoplastic , Fluoropolymer , ETFE/ECTFE , ECTFE Fluoropolymer

### Material Notes:

Excellent purity. Excellent chemical resistance. Low permeability. Excellent abrasion resistance. Excellent temperature resistance. Halar® is a trade name of Solvay Solexis, Inc. Information provided by Westlake Plastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Westlake-Plastics-ECTFE-Film-Made-from-HALAR-Ethylene-chlorotrifluoroethylene-Resin.php](http://www.lookpolymers.com/polymer_Westlake-Plastics-ECTFE-Film-Made-from-HALAR-Ethylene-chlorotrifluoroethylene-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in <sup>3</sup>	ASTM D792
Water Absorption	<= 0.10 %	<= 0.10 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.1 MPa	4940 psi	ASTM D882
Elongation at Break	220 %	220 %	ASTM D882
Tensile Modulus	1.96 GPa	284 ksi	ASTM D882
Flexural Modulus	1.65 GPa	240 ksi	ASTM D790
Tear Strength	198 kN/m	1130 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	240 °C	464 °F	DSC
Maximum Service Temperature, Air	150 °C	302 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	62.8 °C	145 °F	ASTM D648
Flammability, UL94	V-0	V-0	VTM-0
Oxygen Index	60 %	60 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ASTM D257
Dielectric Constant	2.56	2.56	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	105 kV/mm	2670 kV/in	ASTM D149

Electrical Properties	Metric @Thickness 0.0762 mm	English @Thickness 0.00300 in	Comments
Dissipation Factor	0.0025 - 0.0050 @Frequency 1000 Hz	0.0025 - 0.0050 @Frequency 1000 Hz	ASTM D150

## Contact Songhan Plastic Technology Co.,Ltd.

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