

Westlake Plastics Halar® 901 ECTFE

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

Material Notes:

Made from HALAR® ethylene-chlorotrifluoroethylene resin, these products are virtually unaffected by most corrosive chemicals. ECTFE products have excellent chemical and mechanical properties, impact strength, and a broad service use temperature. This polymer offers extremely low permeability to liquids, gases, and vapors. 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-Halar-901-ECTFE.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.6 MPa	4300 psi	ASTM D638
Elongation at Break	250 %	250 %	ASTM D638
Tensile Modulus	1.65 GPa	240 ksi	ASTM D638
Flexural Yield Strength	26.2 MPa	3800 psi	ASTM D790
Flexural Modulus	1.69 GPa	245 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	101 µm/m-°C	56.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	241 °C	465 °F	ASTM D4591
Maximum Service Temperature, Air	149 °C	300 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	62.8 °C	145 °F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	56 %	56 %	ASTM D2863

Electrical Properties	Metric	English	Comments
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Electrical Properties	^{2.5} Metric	^{2.5} English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	13.8 kV/mm	350 kV/in	ASTM D149

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China