

Halar 901 ECTFE

High Viscosity - Extrusion

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Typical Physical Properties

Typical Properties	Test Method	US Unit	SI Unit
Physical Properties			
Density @ 23°C/73°F	ASTM D792	lb/ft ³	105 g/cm ³
Water Absorption	ASTM D570	%	<0.1
Melt Flow Index @ 275°C, 2.16 kg	ASTM D1238	g/10 min	1
Mechanical Properties			
Tensile	ASTM D638		
Tensile Yield Strength	23°C/73°F 2in/min (50mm/min)	psi	4300 MPa
Tensile Break Strength		psi	7800 MPa
Elongation at Yield		%	5
Elongation at Break		%	250
Tensile Modulus		psi	240,000 MPa
Flexural	ASTM D790		
Flexural Strength	23°C/73°F 0.1in/min (2.5mm/min)	psi	6800 MPa
Flexural Modulus		psi	245,000 MPa
Impact	ASTM D256		
Notched Izod Strength, 23°C/73°F	0.125 in (3.2 mm)	ft.lbf/in	No Break J/m
Notched Izod Strength, -40°C/-40°F		ft.lbf/in	2.0 J/m
Hardness, Shore D	ASTM D2240		75
Hardness, Rockwell R	ASTM D785		90
Abrasion Resistance, CS 17 (0.5kg)	Taber		mg/1000 rev
Friction Coefficient	ASTM D1894		
Static			0.2
Dynamic			0.2
Thermal Properties			
Melting Point	DSC	°F	468 °C
Heat of Fusion		BTU/lb	18 J/g
Crystallization Point		°F	432 °C
Crystallization Heat		BTU/lb	17 J/g
Specific Heat @ 23°C/73°F		BTU/lb-°F	0.23 J/g.K

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Thermal Properties (cont'd)					
DTUL, 66 psi (0.46 MPa)	ASTM D648	°F	195	°C	90
DTUL, 264 psi (1.82 MPa)	ASTM D648	°F	150	°C	65
Glass Transition Temperature (T _g)	DMA	°F	185	°C	85
Brittleness Temperature	ASTM D746A	°F	<-105	°C	<-76
Mold Shrinkage	ASTM 955	%	2.5		
Thermal Stability, 1% Mass Loss, N ₂	TGA	°F	760	°C	405
Linear Thermal Exp. Coefficient	ASTM D696	10 ⁻⁶ /°F	56	10 ⁻⁶ /K	100
Thermal Conductivity @ 40°C/104°F	ASTM C177	BTU- in/h-ft ² -°F	1.05	W/m.K	0.15
Electrical Properties					
Volume Resistivity @ 23°C, 50% RH	ASTM D257	ohm- in.	1.4 x 10 ¹⁶	ohm.cm	5.5 x 10 ¹⁶
Dielectric Strength @ 23°C/73°F @ 3.2 mm thickness	ASTM D149	V/mil	350	kV/mm	14
			2.57		
Dielectric Constant, 23°C @ 10 ⁶ Hz					
Fire Resistance					
UL-94 Flammability Test	UL-94	Class	V-0		
Limiting Oxygen Index	ASTM D2863	%	52		

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