

CS Hyde Company

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PRODUCT INFORMATION

32-__F Series KYNAR 720 Resin PVDF Film

PROPERTY	UNITS	TEST METHOD	Kynar® 720 PVDF
MECHANICAL			
Tensile Strength, yield	psi	ASTM D 638	7,000
Ultimate Tensile Strength	psi	ASTM D 638	6,100
Tensile Elongation, break	%	ASTM D 638	50-250
Tensile Modulus	psi	ASTM D 638	250,000
Flexural Modulus	psi	ASTM D 790	260,000
Hardness, Shore D	---	ASTM D 2240	78
Abrasion Resistance	mg/1000 cycles	Taber CS 1 kg	5-10
Tear Strength, propagation	g/mil	ASTM D 1922	100
Refractive Index	---	ASTM D 542	1.42
IMPACT			
Izod Impact, notched	ft-lb/in	ASTM D 256	2.0 – 4.0
Charpy Impact	ft-lb/in	ISO 179	8.2
THERMAL			
VICAT Softening Point	°C	ASTM D 1525	170
Crystalline Melting Point	°C	ASTM D 3418	170
Continuous Use Temperature	°C	DSC	150
Thermal Conductivity	W/m°K	ASTM C 177	0.19
Relative Thermal Index, Electrical Strength	°C	UL 746B	50
Relative Thermal Index, Mechanical Impact	°C	UL 746B	50
Relative Thermal Index, Mechanical Strength	°C	UL 746B	50
Coefficient of Thermal Expansion	°F ⁻¹	ASTM D 696	6.6x10 ⁻⁵
Low Temperature Brittleness Point	°C	ASTM D 746A	0-10

PHYSICAL			
Specific Gravity		ASTM D 792	1.78
Area Factor	in ² /lb/mil	---	15,326
Water Absorption, 24 hrs @73°F	%	ASTM D 570	0.03
ELECTRICAL			
Dielectric Strength, in air @ .003"	V/mil	ASTM D 149	1,900
Dielectric Constant, 1kHz	---	ASTM D 150	7.5 –9.0
Dissipation Factor, 1kHz	---	ASTM D 150	0.01-0.03
Surface Resistivity	ohms/square	ASTM D 257	2 x 10 ¹⁴
Volume Resistivity	ohm-cm	ASTM D 257	2 x 10 ¹⁴
IGNITION CHARACTERISTICS			
Flame Class Rating	---	UL 94	VTM-0
Oxygen Index (LOI)	%	ASTM D 2863	43
UL File Number	---	---	E54699

*The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes.

MISCELLANEOUS

Color	Translucent White
Resistance to UV Radiation	Excellent
Permeability to gases	Low
Chemical Resistance to strong acids	Excellent
Crystallinity Rating	semi-crystalline
Polymer Type	Homopolymer
Thickness tolerances	+/- 10% of nominal thickness

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