

Korton PVDF

Polyvinylidene Fluoride

Saint Gobain - Norton

Message:

Korton PVDF is a Polyvinylidene Fluoride (PVDF) product. It is available in North America. Applications of Korton PVDF include automotive, electrical/electronic applications, aerospace, bags/liners and coating applications.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Corrosion Resistant
- Fatigue Resistant
- Good Weather Resistance

General Information			
Features	Fatigue Resistant		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	Good Thermal Stability		
	Good Weather Resistance		
	High Strength		
	Radiation (Gamma) Resistant		
	Self Extinguishing		
Uses	Aircraft Interiors		
	Automotive Applications		
	Automotive Exterior Parts		
	Cable Jacketing		
	Coating Applications		
	Diaphragms		
	Electrical Parts		
	Liners		
	Packaging		
Forms	Printed Circuit Boards		
	Pump Parts		
	Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.040	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1980	MPa	ASTM D638

Tensile Strength (Yield)	41.7	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Flexural Strength (Yield)	66.9	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Elmendorf Tear Strength - MD	50	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	135 to 150	°C	ASTM D794
Melting Temperature	169	°C	
CLTE - Flow	1.4E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.8E+7	ohms·cm	ASTM D257
Dielectric Strength	140	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	10.0		ASTM D150
Dissipation Factor (1 kHz)	0.016		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	44	%	ASTM D2863
Optical	Nominal Value	Unit	Test Method
Transmittance	93.0	%	ASTM D1003

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