

Korton E-CTFE

Ethylene Chlorotrifluoroethylene Copolymer

Saint Gobain - Norton

Message:

Korton E-CTFE is an Ethylene Chlorotrifluoroethylene Copolymer (ECTFE) product. It is available in North America. Applications of Korton E-CTFE include aerospace, electrical/electronic applications, film and wire & cable.

Characteristics include:

- Flame Rated
- Wear Resistant
- Chemical Resistant
- Flame Retardant
- Good Stiffness

General Information			
Features	Flame Retardant		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Stiffness		
	Good Thermal Stability		
	Good Wear Resistance		
	High Strength		
	Radiation (Gamma) Resistant		
Uses	Aircraft Interiors		
	Cable Jacketing		
	Electrical Parts		
	Film		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Static)	0.075		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	ASTM D882
Secant Modulus			
1% Secant, MD	1520	MPa	
1% Secant, TD	1380	MPa	ASTM D882
Tensile Strength			
MD : Yield	34.5	MPa	
TD : Yield	31.0	MPa	

MD : Break	55.2	MPa	
TD : Break	48.3	MPa	
Tensile Elongation			ASTM D882
MD : Break	200	%	
TD : Break	250	%	
Elmendorf Tear Strength - MD	1200	g	ASTM D1922
Water Vapor Transmission	7.8	g/m ² /24 hr	ASTM E96
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	149 to 171	°C	ASTM D794
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	220	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	2.59		
1 MHz	2.56		
Dissipation Factor			ASTM D150
60 Hz	5.0E-3		
1 MHz	7.7E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	60	%	ASTM D2863
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	80		ASTM D2457
Haze	2.0	%	ASTM D1003

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