

Chemfluor PTFE Film

Polytetrafluoroethylene

Saint Gobain - Norton

Message:

Chemfluor PTFE Film is a Polytetrafluoroethylene (PTFE) product. It is available in North America. Applications of Chemfluor PTFE Film include adhesives/tapes, aerospace, military applications, sheet and wire & cable.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Heat Resistant
- Wear Resistant

General Information			
Features	Good Chemical Resistance		
	Good Electrical Properties		
	Good Thermal Stability		
	Good Wear Resistance		
Uses	Aerospace Applications		
	Electronic Insulation		
	Sheet		
	Tape		
Agency Ratings	ASTM D 3308		
	MIL P-22241, Type II		
Forms	Film		
	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.24	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	552	MPa	ASTM D638
Compressive Strength	24.1	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	204 to 260	°C	ASTM D794
Melting Temperature	317 to 337	°C	

CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
0.0254 mm	350	kV/mm	
0.0508 mm	160	kV/mm	
0.127 mm	110	kV/mm	
0.254 mm	61	kV/mm	
Dielectric Constant			ASTM D150
60 Hz	2.05		
1 MHz	2.05		
Dissipation Factor			ASTM D150
60 Hz	2.0E-4		
1 MHz	2.0E-4		
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	95	%	ASTM D2863
Optical	Nominal Value		Test Method
Refractive Index	1.376		ASTM D542

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