

Exac CTFE

Polychlorotrifluoroethylene

Saint Gobain - Norton

Message:

Exac CTFE is a Polychlorotrifluoroethylene (PCTFE) product. It is available in North America. Applications of Exac CTFE include engineering/industrial parts, aerospace, electrical/electronic applications, automotive and medical/healthcare.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Good Weather Resistance
- Heat Resistant

General Information			
Features	Good Chemical Resistance		
	Good Thermal Stability		
	Good Weather Resistance		
	Low Friction		
	Machinable		
	Self Lubricating		
Uses	Aerospace Applications		
	Automotive Applications		
	Bearings		
	Bushings		
	Connectors		
	Electrical Parts		
	Insulation		
	Medical Devices		
	Pump Parts		
	Seals		
	Valves/Valve Parts		
Agency Ratings	AMS 3650		
	ASTM D 1430		
	FED L-P-385		
	MIL P-46036		
Forms	Rod		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.11	g/cm ³	ASTM D792

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1420	MPa	ASTM D638
Tensile Strength (Yield)	36.2	MPa	ASTM D638
Tensile Elongation (Yield)	170	%	ASTM D638
Flexural Modulus	1640	MPa	ASTM D790
Flexural Strength (Yield)	63.4	MPa	ASTM D790
Compressive Strength	41.4	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (24°C)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	126	°C	
1.8 MPa, Unannealed	75.0	°C	
Continuous Use Temperature	204	°C	ASTM D794
Brittleness Temperature	-240	°C	ASTM D746
Melting Temperature	210 to 216	°C	
CLTE - Flow	4.7E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.14	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+15	ohms	ASTM D257
Volume Resistivity	2.0E+16	ohms·cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.00		
1 MHz	2.50		
Dissipation Factor			ASTM D150
60 Hz	5.0E-3		
1 MHz	7.0E-3		
Arc Resistance	360	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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