

Exac PTFE

Polytetrafluoroethylene

Saint Gobain - Norton

Message:

Exac PTFE is a Polytetrafluoroethylene (PTFE) product. It is available in North America. Applications of Exac PTFE 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		
Agency Ratings	AMS 3651		
	ASTM D 1457		
	ASTM F 754		
	FED L-P-403		
Forms	Rod		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.16	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
Tensile Strength (Yield)	19.0	MPa	ASTM D638
Tensile Elongation (Yield)	200	%	ASTM D638
Flexural Modulus	621	MPa	ASTM D790
Compressive Strength	11.7	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (24°C)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	121	°C	
1.8 MPa, Unannealed	55.6	°C	
Continuous Use Temperature	260	°C	ASTM D794
Brittleness Temperature	-268	°C	ASTM D746
CLTE - Flow	9.9E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.25	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+18	ohms	ASTM D257
Volume Resistivity	1.0E+18	ohms·cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	2.10		
1 MHz	2.10		
Dissipation Factor			ASTM D150
60 Hz	2.0E-4		
1 MHz	2.0E-4		
Arc Resistance	300	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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