

Exac ETFE

Ethylene Tetrafluoroethylene Copolymer

Saint Gobain - Norton

Message:

Exac ETFE is an ethylene tetrafluoroethylene copolymer (ETFE) product. It is available in North America. Exac ETFE applications include engineering/industrial accessories, electrical/electronic applications, aerospace, wire and cable, and sealing applications.

Features include:

flame retardant/rated flame

Copolymer

good weather resistance

chemical resistance

Heat resistance

General Information			
Features	Low friction coefficient		
	Copolymer		
	Machinable		
	Good chemical resistance		
	Good weather resistance		
	Thermal stability, good		
	Self-lubricating		
Uses	Pump parts		
	Bushing		
	Electrical components		
	Valve/valve components		
	Aerospace applications		
	Insulating material		
	Connector		
	Seals		
	Application in Automobile Field		
	Medical devices		
Agency Ratings	AMS 3533		
	ASTM D 3159		
Forms	Bar		
	Pipe		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792

Water Absorption (24 hr)	0.029	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	827	MPa	ASTM D638
Tensile Strength (Yield)	44.8	MPa	ASTM D638
Tensile Elongation (Yield)	200	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Flexural Strength (Yield)	37.9	MPa	ASTM D790
Compressive Strength	49.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (24°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	104	°C	ASTM D648
1.8 MPa, not annealed	73.9	°C	ASTM D648
Continuous Use Temperature	150	°C	ASTM D794
Brittleness Temperature	-101	°C	ASTM D746
Melting Temperature	271	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.25	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	2.60		ASTM D150
1 MHz	2.60		ASTM D150
Dissipation Factor			ASTM D150
60 Hz	6.0E-4		ASTM D150
1 MHz	5.0E-3		ASTM D150
Arc Resistance	75.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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