

Exac PTFE (MOLDED)

Polytetrafluoroethylene

Saint Gobain - Norton

Message:

Exac PTFE (MOLDED) is a Polytetrafluoroethylene (PTFE) product. It is available in North America. Applications of Exac PTFE (MOLDED) include engineering/industrial parts, aerospace, electrical/electronic applications, military applications and automotive.

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 3660
	AMS 3668
	ASTM D 3294
	ASTM D 3297
	MIL P-22241, Type I
	MIL P-24074
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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