

TECHNICAL DATASHEET

Fluorolon 1000 Virgin PTFE

Product Description:

Fluorolon Virgin PTFE 1000 is a high molecular weight polymer, one of the most versatile plastic materials, and useful for an extensive range of products in which other materials won't work.

Applications: Primarily for seals, seats, bearings, and Insulators.

Specifications: Virgin PTFE ASTM-D4894, PTFE Filled ASTM D4745-06, FDA and Dairy Approved

Product Properties:

- High heat resistance
- High chemical resistance
- Low friction
- High dielectric properties
- Non-toxic
- Rated for Cryogenic applications

Property	Method	Units	Specification
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Physical	Color	White	--	White
	Specific Gravity	ASTM D792	gr/cc	2.14-2.20
	Water Absorption	ASTM D570	%	0.001
	Flammability	UL 94		V-0

Mechanical	Tensile Strength	ASTM D638	psi	2000
	Elongation	ASTM D638	%	200-300
	Hardness	ASTM D1706	Durometer D	50-60
	Compressive strength	ASTM D695-57	psi	1100
	Coefficient of Friction	ASTM D3702	Static	0.12
	Deformation 78 F@ 2000psi/24h	ASTM D621	%	14-16

Thermal	Coefficient of Thermal Expansion	ASTM D696	in/in/°F	5.5 x 10 ⁻⁵
	Max Service Temp Continuous		*F	+500
	Minimum Service Temp Continuous		*F	-425

Electrical	Dielectric Constant	ASTM D150	-	2.00
	Dielectric Strength	ASTM D257	volts	1000