

TECHNICAL DATASHEET

Fluorolon PTFE/Glass Alloy 1025

Product Description:

Fluorolon PTFE 1025 is a high molecular weight polymer reinforced with 25% glass fibers, providing enhanced mechanical properties. The glass increases compressive strength and reduces cold flow. The characteristics are: high heat resistance, high resistance to chemical agents, high dielectric properties, low friction, and non-toxic.

Applications: Seals, valve Seats, Bushings, Insulators

Product Properties:

- Increased compressive strength
- Improved hardness
- Excellent insulating properties
- Chemical resistant

	Property	Method	Units	Specification
Physical	Color	White	--	White
	Specific Gravity	ASTM D792	gr/cc	2.16-2.21
	Water Absorption	ASTM D570	%	<0.001
	Flammability	UL 94		V-0
Mechanical	Tensile Strength	ASTM D638	psi	2100
	Elongation	ASTM D638	%	150
	Hardness	ASTM D1706	Durometer D	58
	Compressive strength	ASTM D695-57	psi	1600
	Coefficient of Friction	ASTM D3702	F	0.21
	Deformation 78 F@ 2000psi/24h	ASTM D621	%	4-9
Thermal	Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.8 x 10 ⁻⁵ th
	Max Service Temp Continuous		*F	+500
	Minimum Service Temp Continuous		*F	-425
Electrical	Dielectric Constant	ASTM D150	-	2.5
	Dielectric Strength	ASTM D257	volts	-