

Modified PTFE

	Properties	Method	Units	Specification
Physical	Color	-	-	White
	Specific gravity	ASTM D792	g/cm ³	2,140 - 2,180
	Water absorption	ASTM D570	%	0,01
	Flamability	UL 94	-	V-0
Mechanical	Tensile strength	ASTM D4894	MPa	≥ 28
	Elongation	ASTM D4894	%	≥ 400
	Hardness	ASTM D2240	Shore D	≥ 54
	Compression strength at 1% deformation	ASTM D785	MPa	≥ 23
	Ball Hardness	ASTM D695	MPa	≥ 4
	Deformation under load (140 Kg/cm ² for 24 hrs. At 23 °C)	ASTM D621	%	9 - 12
	Permanent deformation (after 24 hrs. Relaxation at 23 °C)	ASTM D621	%	4,5 - 6
	Coefficient of static friction	ASTM D1894	-	0,08 - 0,10
	Coefficient of dynamic friction	ASTM D1894	-	0,06 - 0,08
	Wear factor K	ASTM D3702	-	2900
	Wear coefficient	-	$\frac{\text{cm}^3 \text{ min}}{\text{Kg m h}} \cdot 10^{-8}$	20000 - 25000
	Thermal	Thermal conductivity	ASTM C177	W/m·K
Coefficient of linear thermal expansion From 25 to 100 °C		ASTM D696	10 ⁻⁵ /°C	12 - 14
Electrical	Dielectric strength	ASTM D149	kV/mm	≥ 50
	Volume resistivity	ASTM D257	Ohm·cm	10 ¹⁸
	Surface resistivity	ASTM D257	Ohm	10 ¹⁷
Certificate	FDA approved US regulation	-	-	yes
	EU 1935/2004 - 10/2011	-	-	yes