



DATA SHEET

VIRGIN PTFE FDA

PTFE (Polytetrafluoroethylene) is a synthetic fluoropolymer that has numerous applications. It is widely known as Teflon and it was discovered by the DuPont Laboratories.

Propiedades básicas / basic properties	Unidad / unit	Valor / value	Método / method
Peso específico / specific gravity	gr/cm ³	2.13 - 2.19	ASTM D792
Color / colour		Blanco / white	
Absorción de agua / water absorption	%	0.01	ASTM D570
Inflamabilidad / flammability		V0	UL94
Carga de rotura / tensile strength	MPa	≥20	ASTM D4894
Alargamiento / elongation	%	≥200	ASTM D4894
Dureza / hardness	°Shore D	≥54	ASTM D2240
Dureza de bola / ball hardness	MPa	≥23	ASTM D785
Compresión, 1% def. / comp. strength at 1% def.	MPa	≥4	ASTM D695
Deformación bajo carga 140kg/cm² 24hr 23°C / deformation under load 140kg/cm ² 24hr 23°C	%	10-13	ASTMD621
Deform. Permanente, tras 24hr relajación, 23°C / permanent deformation, after 24hr relaxation at 23°C	%	6-7.5	ASTMD621
Coefficiente de fricción / coefficient of friction			
· Estática / static		0.08-0.10	ASTM D1894
· Dinámica / dynamic		0.06-0.08	
Factor de desgaste K / wear factor K		2900	ASTM D3702
Conductividad térmica / thermal conductivity	W/m·K	0.34	ASTM C177
Coef. dilatación térmica lineal 25 a 100°C / coefficient of linear thermal expansion from 25 to 100°C	10 ⁻⁵ /°C	12-15	ASTM D696
Rigidez dieléctrica / dielectric strength	KV/mm	≥30	ASTM D149
Resistencia volumétrica / volume resistivity	Ohm/cm	10 ¹⁸	ASTM D257
Resistencia superficial / surface resistivity	Ohm	10 ¹⁷	ASTM D257
Resistencia química / chemical resistance		0 - 14	
Campo de temperaturas / temperatura range	°C	-100 / +250	

Formato / format

- Films en rollos, planchas, barras redondas macizas, tubos, dollas, juntas y mecanizados.
Films in rolls, sheets, rods, tubes, pieces & gaskets.

Aprobaciones / approvals

- FDA CFR 21. num.177.1550
- EC1935/2004 - 10/2011



Disponible bajo consulta / available on request

- PTFE con cargas de relleno, como el grafito, carbono, fibra de vidrio, bronce, aluminio, etc. /
PTFE with fillers, as graphite, carbon, fiberglass, bronze, aluminum, etc.

