



PTFE

PTFE stands out for its flame resistance: it is classified as a "non-combustible" material in the air according to ASTM D365 test method. This material has low resistance to gamma radiation: for example, an exposure to 70 Megarads reduces the tensile strength by 50%. It has good mechanical properties, even at very low temperatures and excellent fatigue resistance, especially in applications involving bending or vibration.

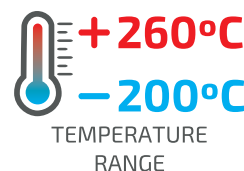
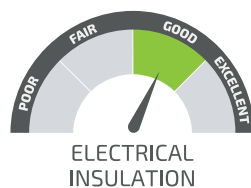


MAIN CHARACTERISTICS

- Wide range of temperatures -200°C to +260°C
- Almost total resistance to all chemicals
- Very low coefficient of friction
- Non-flammable
- Excellent dielectric properties
- Good mechanical properties
- Excellent resistance to fatigue
- Total resistance to ageing, moisture and ultraviolet rays
- Non-toxic

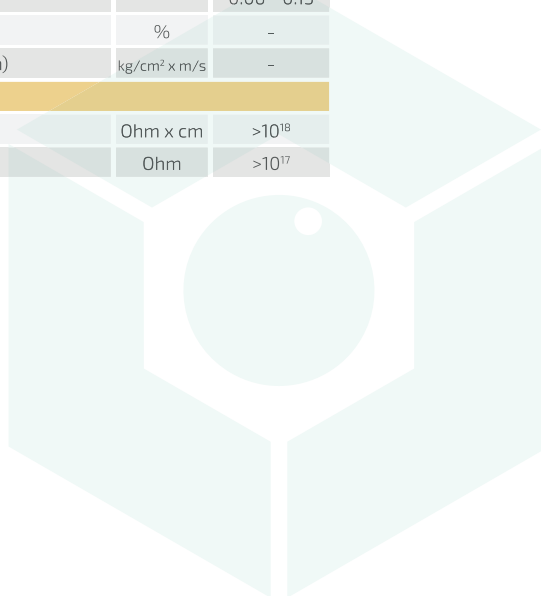
APPLICATIONS

- Permeability
- Friction
- Electrical insulation
- Anti-corrosion
- General mechanics





PROPERTIES	UNITS	VIRGIN PTFE
DENSITY	g/cm ³	2.13-2.19
THERMAL PROPERTIES		
THERMAL CONDUCTIVITY	cal/s/cm/°C	5 - 11 x 10 ⁻⁴
COEFF. OF LINEAR THERMAL EXPANSION (23°C - 260°C)	°C	10-15 x 10 ⁻⁵
MECHANICAL PROPERTIES		
TENSILE STRENGTH	MPa	25 - 30
RUPTURE DEFORMATION	%	250 - 400
SHORE HARDNESS	SHORE D	55 - 60
DYNAMIC FRICTION COEFFICIENT	-	0.06 - 0.15
FLUENCY	%	-
PRESSURE/VELOCITY FACTOR - P.V. (3.5m/min)	kg/cm ² x m/s	-
ELECTRICAL PROPERTIES		
VOLUME RESISTIVITY	Ohm x cm	>10 ¹⁸
SURFACE RESISTIVITY	Ohm	>10 ¹⁷



POLY LANEMA