

VIRGIN PTFE

PTFE is the most chemical resistant plastic known. It offers useful mechanical properties from cryogenic temperatures to over 500° F. Impact strength is high, but tensile strength and wear resistance are low compared to other engineering plastics. Coefficient of friction is lower than almost any other material. "Slippery" surface makes it difficult to make anything adhere. Use in corrosive or high temperature applications.

Physical Properties – Virgin PTFE

Density	2.14-2.19 g/cm ²
Flammability	NC
Water Absorption	<0.01

Mechanical

Tensile Strength at 23°C	29-39 N/mm ²
Tensile Strength at 150°C	14-20 N/mm ²
Tensile Strain at 23°C	200-500%
Shore Hardness	60-65 D
Coefficient of Friction	0.05-0.2

Electrical

Surface Resistivity	10 ¹⁷
Dielectric Strength	40=-/80 KV/mm

Thermal

Coefficient of linear expansion	10-16 1/10 ⁵
Maximum continuous operating temp	250-260°C

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