



POLYTETRAFLUOROETHYLENE (PTFE)

PTFE is a synthetic fluoropolymer which lends itself to a vast array of applications. PTFE also known as Teflon is a white solid at room temperature, with a density of around 2.2g/cm³, and a melting point of 327°C. It displays working temperatures ranging from -200°C to +260°C. It is used in washer, strip or gasket form across a broad spectrum of industries including construction, automotive, food and electrical.

MAIN PTFE CHARACTERISTICS

- ▣ **Low coefficient of friction** - the second lowest of any solid material. PTFE is suitable for most moving parts allowing them to glide over surfaces smoothly and with less effort. Suitable for bearings, gears and sliding plates.
- ▣ **Excellent dielectric properties** – one of the best thermally established and non conducting plastic materials making it suitable for electrical insulators in circuit boards.
- ▣ **Good chemical resistance** – PTFE is chemically inert and non toxic and is used in chemical laboratories for containers, and stirrers where in contact with strong acids. It is solvent resistant up to 300°C.

VIRGIN PTFE SPECIFICATION SHEET

PLEASE NOTE THAT INFORMATION IS FOR GUIDANCE ONLY AND DEPENDANT ON SPECIFIC APPLICATION

HARDNESS	SHORE D 50 - 60
WORKING TEMPERATURE	-200 TO +260°C
WATER ABSORPTION (%)	<0.01
TENSILE STRENGTH (PSI)	3900

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