



DIRECT GASKETS LIMITED
UNITS 26 - 36
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VIRGIN PTFE

DESCRIPTION

Virgin PTFE is white in colour and a very rigid material. It has a wide range of applications which makes use of its extreme chemical resistance, low coefficient of friction, excellent insulation properties and thermal stability up to 250°C.

SERVICE

Virtually resistant to all corrosive chemicals - with the exception of fluorine, some fluoro-chemicals and molten alkali metals. Anti-stick and non-flammable. Fatigue resistant (especially in applications which involve flexing or vibrations)

Max recommended temperatures : -200°C to +250°C

These temperature and pressure guides cannot necessarily be used simultaneously and may not apply to all thicknesses.

APPROVALS/COMPLIANCE

Non-flammable ASTM D635 & D470

Food Safe FDA 175.105 175.300 176.170 176.180 177.1520 177.2600 177.1550 177.2600
178.3570

WARNING

PTFE has poor resistance to gamma radiation. For example, exposure to 70 megarads radiation reduces tensile strength by 50%.

ALL PRESSURES AND TEMPERATURES ARE SUBJECT TO INDIVIDUAL APPLICATION



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TYPICAL PHYSICAL PROPERTIES VIRGIN PTFE

PROPERTY	METHOD	UNITS	SPECIFICATION
Specific Gravity	ISO 13000-2	g/cm ³	2130 - 2180
Tensile Strength	ISO 13000-2	MPa	>20
Elongation	ISO 13000-2	%	>200
Hardness	ISO 13000-2	Shore D	>54
Ball Hardness	ISO 13000-2	MPa	>23
Compression Strength @ 1% Deformation		KG/cm ²	>70
Deformation under load 140kg/cm ² 24hrs @ 23°C	ASTM D621	%	10 - 17
Permanent Deformation After 24 hrs, relaxation @ 23°C	ASTM D621	%	6 - 7.5
Coefficient of static friction	ASTM D621		0.08 - 0.10
Coefficient of dynamic friction	ASTM D621		0.06 - 0.08
Thermal Conductivity	ASTM D621	W / m.K	0.24
Dielectric Constant (ε) At 60Hz to 2Ghz	ASTM D621		2.1
Dielectric Strength	ASTM D621	KV/mm	20 - 70
Volume Resistivity	ASTM D621	Ohm cm	10 ¹⁸
Flammability	ASTM		VE-0
Water Absorption	ASTM D621	%	0.01

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