



DIRECT GASKETS LIMITED
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25% GLASS FILLED PTFE

DESCRIPTION

25% Glass Filled PTFE has better creep and wear resistance compared to Virgin PTFE, these properties are improved with the addition of a glass filler. This filler improves dimensional stability, slightly raises temperature limitations and improves creep resistance. It is white in colour and very rigid. 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 260°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 +260°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 177.1550 177.2600 178.3570

ALL PRESSURES AND TEMPERATURES ARE SUBJECT TO INDIVIDUAL APPLICATION



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TYPICAL PHYSICAL PROPERTIES 25% GLASS FILLED PTFE

PROPERTY	METHOD	UNITS	SPECIFICATION
Specific Gravity	ASTM D792	g/cc	2230 - 2260
Tensile Strength	ASTM D4894	MPa	13 - 18
Elongation	ASTM D4894	%	180 - 220
Hardness	ASTM D2240	Shore D	60 - 65
Deformation Under Load 140kg/cm ² 24hrs @ 23°C	ASTM D695	%	10 - 12
Deformation Under Load 140kg/cm ² 24hrs @ 150°C	ASTM D695	%	13 - 15
Permanent Deformation After 24hrs, relaxation @ 23°C	ASTM D695	%	5 - 6
Permanent Deformation After 24 hrs, relaxation @ 150°C	ASTM D695	%	8 - 10
Friction Coefficient	ASTM D1894		0.15 (Dynamic)
Volume Resistivity	ASTM D257	Ohm cm	10 ¹⁵
Water Absorption	ASTM D570	%	0.013
Service Temperature		°C	-200°C / +260°C
Flammability	UL 94	%	V-0
Melting Point		°C	325 - 335

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