



DATA & SPECIFICATION

DATASHEET

POLYTETRAFLUORIETHYLENE (OZ PTFE)

Features



- Good mech resistance if reinforced with glass, carbon or bronze
- Excellent chem resistance to almost all commercial fluids & chems
- Highly stable electrical insulating properties
- Has weather resistant properties
- Excellent resistance to extreme heat & cold
- Self-lubricating
- Temperature range: -200 to 260°C
- Grades: virgin, carbon filled, glass filled, bronze or PPS filled

PROPERTIES	STANDARD	UNIT	VALUE
Ball Indentation Hardness	DIN 53456	N/mm ²	25
Density	DIN 53479	N/cm ³	2.16
Tensile strength – longitudinal	DIN 53455	N/mm ²	27
Tensile strength – diagonal	ASTM D1457-81	N/mm ²	26
Elongation at break – longitudinal	DIN 53455	%	390
Elongation at break – diagonal	ASTM D1457	%	450
Tensile E – Modulus		N/mm ²	750
Dimensional stability under heat acc to ISO 75B	DIN 53461	°C	121
Linear coefficient of thermal expansion		K ⁻¹	1.2 x 10 ⁻⁴
Coefficient of friction against hard polish steel			0.13
Glass temperature		°C	127
Melting point		°C	327
Thermal conductivity		W/Km	0.25
Spec. thermal capacity		J/gk	1
Specific resistance		Ohm/cm	10 ⁻¹⁸
Dielectric coefficient 10 ³ - 10 ⁶		Hz	2.1
Elongation coefficient	DIN 53328	K ⁻¹	16 x 10 ⁻⁵