

RHONDAMA LIMITED PTFE I

PTFE I Hardness 58° Shore D Grey

Composition % weight ± 1:

15% Clean milled glass fibres + 5% MoS2 powder + 80% virgin PTFE

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Grey		Grey
Density/specific gravity	23°C	DIN 53479	Kg/m ³	2244	g/cm ³	2,244
Hardness	23°C	ISO 868	Shore D	58±3	Shore D	58±3
Ball indentation hardness	23°C	DIN 53456 H135/30	MPa	≥26	Psi	≥3770
Tensile strength	23°C	ASTM D 4745-79	MPa	≥16	Psi	≥2320
Elongation at break	23°C	ASTM D 4745-79	%	≥185	%	≥185
Compressive strength	23°C	DIN 53455	MPa	≥8	Psi	≥1160
Thermal conductivity	23°C	DIN 52612	$\frac{J \times 10^3}{m \times h \times K}$	0,13	$\frac{J \times 10^3}{m \times h \times K}$	0,13
Coefficient of thermal expansion	25°C-200°C		K ⁻¹ × 10 ⁻⁵	11	K ⁻¹ × 10 ⁻⁵	11
Coefficient of friction	*		μ	0,13	μ	0,13
Minimum service temperature			°C	-200	°F	-328
Maximum service temperature			°C	260	°F	500
Young's modulus		DIN 53457	MPa	1320	Psi	191500

* dynamic coefficient of friction, dry, steel 16MnCr5: v=0,6 m/s; p=0,05 MPa; t=5h

Chemical Properties

Filled PTFE

Resistant to: almost all chemicals

Not resistant to: halogenides, elemental fluorine, CF₃, molten alkali metals

Detailed information concerning chemical resistance see Rhondama Compatibility Chart