

RHONDAMA LIMITED PTFE GRAPHITE

PTFE GRAPHITE Hardness 65° Shore D Dark Grey

Composition % weight ± 1 :
15% Graphite + 85% virgin PTFE

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Dark Grey		Dark Grey
Density/specific gravity	23°C	DIN 53479	Kg/m ³	2200	g/cm ³	2,2
Hardness	23°C	ISO 868	Shore D	65 \pm 3	Shore D	65 \pm 3
Ball indentation hardness	23°C	DIN 53456 H135/30	MPa	\geq 29	Psi	\geq 4206
Tensile strength	23°C	ASTM D 4745-79	MPa	\geq 15	Psi	\geq 2175
Elongation at break	23°C	ASTM D 4745-79	%	\geq 140	%	\geq 140
Compressive strength	23°C	DIN 53455	MPa		Psi	
Thermal conductivity	23°C	DIN 52612	$\frac{J \times 10^3}{m \times h \times K}$	4,0	$\frac{J \times 10^3}{m \times h \times K}$	4,0
Coefficient of thermal expansion	25°C-200°C		K ⁻¹ \times 10 ⁻⁵	11,2	K ⁻¹ \times 10 ⁻⁵	11,2
Coefficient of friction	*		μ	0,14	μ	0,14
Minimum service temperature			°C	-200	°F	-328
Maximum service temperature			°C	260	°F	500
Young's modulus		DIN 53457	MPa		Psi	

* 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