

RHONDAMA LIMITED PTFE D46

PTFE D46 Hardness 71° Shore D Bronze Blue

Composition % weight ± 1:

46% Bronze + 1% pigments + 53% virgin PTFE

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Bronze Blue		Bronze Blue
Density/specific gravity	23°C	DIN 53479	Kg/m ³	3200	g/cm ³	3,2
Hardness	23°C	ISO 868	Shore D	71±3	Shore D	71±3
Ball indentation hardness	23°C	DIN 53456 H135/30	MPa	≥28	Psi	≥4061
Tensile strength	23°C	ASTM D 4745-79	MPa	≥28	Psi	≥4061
Elongation at break	23°C	ASTM D 4745-79	%	≥280	%	≥280
Compressive strength	23°C	DIN 53455	MPa	≥10	Psi	≥1450
Thermal conductivity	23°C	DIN 52612	$\frac{J \times 10^3}{m \times h \times K}$	4,2	$\frac{J \times 10^3}{m \times h \times K}$	4,2
Coefficient of thermal expansion	25°C-200°C		K ⁻¹ × 10 ⁻⁵	8,5	K ⁻¹ × 10 ⁻⁵	8,5
Coefficient of friction	*		μ	0,15	μ	0,15
Minimum service temperature			°C	-200	°F	-328
Maximum service temperature			°C	260	°F	500
Young's modulus		DIN 53457	MPa	1420	Psi	206000
* 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