RHONDAMA LIMITED PTFE 25% GLASS

PTFE 25% GLASS Hardness 60° Shore D Grey

Composition % weight ± 1:

55% Clean milled glass fibres + 75% virgin PTFE

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Grey		Grey
Density/specific gravity	23°C	DIN 53479	Kg/m^3	2220	g/cm^3	2,22
Hardness	23°C	ISO 868	Shore D	60±3	Shore D	60±3
Ball indentation hardness	23°C	DIN 53456 H135/30	MPa	≥27	Psi	≥3916
Tensile strength	23°C	ASTM D 4745-79	MPa	≥16	Psi	≥2320
Elongation at break	23°C	ASTM D 4745-79	%	≥219	%	≥219
Compressive strength	23°C	DIN 53455	MPa	≥8	Psi	≥1160
Thermal conductivity	23°C	DIN 52612	$\frac{J \times 10^3}{m \times h \times K}$	1,3	$\frac{J \times 10^3}{m \times h \times K}$	1,3
Coefficient of thermal expansion	25°C-200°C		$K^{-1} \times 10^{-5}$	10,7	$K^{-1} \times 10^{-5}$	10,7
Coefficient of friction	*		μ	0,16	μ	0,16
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