

RHONDAMA LIMITED PTFE D05

PTFE D05 Hardness 57° Shore D Turquoise

Composition % weight \pm 1:
1% Pigments + 99% virgin PTFE

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Turquoise		Turquoise
Density/specific gravity	23°C	DIN 53479	Kg/m ³	2190	g/cm ³	2,19
Hardness	23°C	ISO 868	Shore D	57 \pm 3	Shore D	57 \pm 3
Ball indentation hardness	23°C	DIN 53456 H135/30	MPa	\geq 23	Psi	\geq 3335
Tensile strength	23°C	ASTM D 4745-79	MPa	\geq 38	Psi	\geq 5511
Elongation at break	23°C	ASTM D 4745-79	%	\geq 362	%	\geq 362
Compressive strength	23°C	DIN 53455	MPa	\geq 4	Psi	\geq 580
Thermal conductivity	23°C	DIN 52612	$\frac{J \times 10^3}{m \times h \times K}$	0,8	$\frac{J \times 10^3}{m \times h \times K}$	0,8
Coefficient of thermal expansion	25°C-200°C		K ⁻¹ \times 10 ⁻⁵	19	K ⁻¹ \times 10 ⁻⁵	19
Coefficient of friction	*		μ	0,08	μ	0,08
Minimum service temperature			°C	-200	°F	-328
Maximum service temperature			°C	260	°F	500
Young's modulus		DIN 53457	MPa	540	Psi	78500

* 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