

RHONDAMA LIMITED PTFE EKONOL

PTFE E EKONOL ® Hardness 63° Shore D Cream

Composition % weight ± 1:
10% Ekonol + 90% virgin PTFE

Mechanical, physical and thermal properties

Properties	Condition	Standard	Unit			
Colour				Cream		Cream
Density/specific gravity	23°C	DIN 53479	Kg/m ³	2068	g/cm ³	2,068
Hardness	23°C	ISO 868	Shore D	63±3	Shore D	63±3
Ball indentation hardness	23°C	DIN 53456 H135/30	MPa		Psi	
Tensile strength	23°C	ASTM D 4745-79	MPa	≥13	Psi	≥1800
Elongation at break	23°C	ASTM D 4745-79	%	≥180	%	≥180
Compressive strength	23°C	DIN 53455	MPa	≥11	Psi	≥1525
Thermal conductivity	23°C	DIN 52612	$\frac{J \times 10^3}{m \times h \times K}$	5,4	$\frac{J \times 10^3}{m \times h \times K}$	5,4
Coefficient of thermal expansion	25°C-200°C		$K^{-1} \times 10^{-5}$	8,4	$K^{-1} \times 10^{-5}$	8,4
Coefficient of friction	*		μ	0,18	μ	0,18
Minimum service temperature			°C	-200	°F	-328
Maximum service temperature			°C	260	°F	500

* 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