

Technical Data Sheet: Standard virgin PTFE

MATERIAL

PTFE

FEATURES & BENEFITS

Service temperature

PTFE has excellent resistance to continuous service temperatures between -150°C up to 260°C and, for short time, even to higher temperatures.

Chemical Properties

PTFE has a very high

inertness to most chemicals. It is only sensitive to elementar fluorine, molten alkali metals and chlorine trifluoride at high temperature and pressures. Permeation occurs with helium, chloride and bromine.

TYPICAL PROPERTIES				
	Properties	Standard Test	Units	Typical Value
	Color	Visual	NA	Milky white Grey or yellow discoloration Transparent zone
20	Specific gravity	ASTM D792	g/cm ³	2.14 – 2.19
	Elongation at break	ASTM D4894	%	> 200
	Tensile strength	ASTM D4894	MPa	> 20
	Hardness	ASTM D2240	Shore D	50 - 60
	Deformation under load (15MPa for 24hours at 23℃)	ASTM D621	%	16
	Coefficient of linear expansion in the range 23 - 200 ℃	DIN 53752	℃ -1	15.10 ⁻⁵
	Dielectric strength	ASTM D149	kV/mm	> 30
	UL 94 flame rating	UL 94	NA	V0
	Water absorption , 24 hours	ASTM D570	%	< 0.01
	Coefficient of dynamic friction	Cold-finished steel	NA	< 0.1
Coefficient of dynamic friction Cold-finished steel NA < 0.1				

Important Notice:

All information set forth herein is based on our present state of knowledge and is intended to provide general notes regarding products and their uses. It should not therefore be construed as a guarantee of specific properties of the products described or their suitability for a particular application. Because conditions of product use are outside 3P's control and vary widely, user must evaluate and determine whether a 3P product will be suitable for user's intended application before using it.



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