

WHITE VIRGIN PTFE

GENERAL DETAILS :

PTFE is a white virgin PTFE (Polytetrafluoroethylene) commonly referred to as Teflon. This material has outstanding chemical properties and the lowest coefficient of friction for any solid material. The wide range of temperature (-200°C to +260°C) and the excellent chemical properties make PTFE a material suitable for many sealing applications using chemicals. Due to the poor mechanical properties of virgin PTFE this material should not be used for dynamic application, especially in water.

PHYSICAL PROPERTIES :

PHYSICAL PROPERTIES	STANDARD	UNIT	VALUE
Specific Gravity	ASTM D792	-	2.14 - 2.18
Hardness	ASTM D2240	Shore D	51 - 60
Tensile Strength	ASTM D1457	N/mm ²	26.5 - 30
Elongation at break	ASTM D1457	%	300 - 400
Coefficient of sliding	ASTM D3028 (1)	μ	0.06
Ball hardness H132/60	DIN 53456	N/mm ²	22 - 32
Min Service Temperature		°C	-200
Max Service Temperature		°C	260

CHEMICAL RESISTANCE :

		KEY TO CHEMICAL RESISTANCE
Water up to 70°C	R	R = RESISTANCE
Water up to 90°C	R	S = SUITABLE
HFA Fluids	R	U = UNSUITABLE
HFB Fluids	R	
HFC Fluids	R	
HFD Fluids	R	
Mineral Oils	R	
Vegetable Oils	R	
Fuels	R	
Ozone	R	
Air up to 100°C	R	
Air up to 150°C	R	
Air up to 200°C	R	

