

## PTFE virgin

Physical properties			
	ASTM test method	PTFE	Unit
Specific gravity	D792	2.10-2.30	g/cm <sup>3</sup>
Melting point	-	327	°C
Coefficient of linear thermal expansion	D696	9.9 (23-66°C)	10 <sup>-5</sup> /°C
Thermal conductivity	C177	0.19	W/m•k
Index of refraction	D541	1.35	-
Coefficient of water absorption	D570	<0.01	%(24h)
Min.temp.	-	-	-
Max.temp.(continuous)	-	260	°C
Mechanical properties			
Tensile strength	D638	25~34.3	MPa
Elongation	D638	200~400	%
Compressive strength	D695	11.8	MPa
Bending strength	D790	0.55	MPa
Flexural modulus	D790	-	X10 <sup>3</sup> MPa
Hardness	D2240	50-55	Durometer
Coefficient of dynamic friction	-	0.10	0.7 MPa
Working pressure	-	300~400	Kgs/cm <sup>2</sup>
Electrical properties			
Specific volume resistivity	D257	>10 <sup>18</sup>	Ω•cm
Surface resistivity	D257	>10 <sup>16</sup>	Ω
Dielectric breakdown voltage	C149	19.2	(1.8"Th)kv/mm
Dielectric constant	D150	<2.1	10 <sup>6</sup> HZ
Dielectric loss tangent	D150	<0.0002	10 <sup>6</sup> HZ
Arc resistance	D495	>300	S