

property	PTFE virgin	PTFE 25% GLASS	PTFE 25% Carbon	PTFE 65%bronze	METHOD	UNIT
Specific gravity	2.15-2.20	2.23-26	2.05-2.12	3.90-3.98	ASTMD792	3 g/cm
Flammability	VE-0	NC	NC	NC	UI94	%
Water absorption	0.01	-	-	-	ASTM D570	%
Tensile strength	20-30	13-18	13-18	17-22	ASTM D1457	2 N/MM
Elongation at break	220-300	120-180	120-180	100-180	ASTM D1457	%
Compression strength 1% deformation	4.5	10	10	10-5	ASTM D695	2 N/MM
Impact coefficient	1.5	-	-	-	ASTM D256	J/CM
Hardness (shore D-15 sec)	50-60	62-66	62-66	65-70	ASTM D2240	SHORE D
Coefficient of friction	0.05-0.09	0.1-0.2	0.1-0.2	0.07-0.2	ASTM D1894	-
DEFORMATION UNDER LOAD (14/MM ² .24 AT 23 C)	14.5	6-7	6-7	6-7	ASTM D621	%
Permanent deformation after 24h relaxation at 23 c	8.0	3-4	3-4	2-3	ASTM D695	%
Dielectric constant 50 to 10 hz)	2.1	-	-	-	ASTM D150	-
Dielectric strenght	55	-	-	-	ASTM D149	Kv/mm
Volume resistivity	18 10	4 10	4 10	-	ASTM D257	n/cm
Coefficient of liner expansion	1.6×10 ⁻⁵	9.5×10 ⁻⁵	9.5×10 ⁻⁵	9.5×10 ⁻⁵	ASTMD831	0 -1 C
Max.continuous operating temp.	260-250	250-260	250-260	250-260	-	0 C

Service temperature	-۲۰۰+۲۶۰	-200+260	-200+260	-200+260	-	W/MK
Thermal conductivity	۰,۲۳	0.64	0.64	0.74	ASTM D2214	W/MK

