

Technical Data Sheet **PTFE**

property	PTFE virgin	PTFE 25% glass	PTFE 25% carbon	PTFE 65% bronze	method	unit
Specific gravity	2.15-2.20	2.23-2.26	2.05-2.12	3.90-3.98	ASTM D792	g/cm ³
Flammability	VE-·	C·N	NC	NC	UI94	%
Water absorption	0.01	-	-	-	ASTM D570	%
Tensile strength	20-30	13-18	13-18	17-22	ASTM D1457	N/mm ²
Elongation at break	220-300	120-180	120-180	100-180	ASTM D1457	%
Compression strength 1% deformation	4.5	۱·	۱·	10-5	ASTM D695	N/mm ²
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 N/mm ² . 24h at 23°C)	14.5	۱,۷	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 HZ to 109 Hz	2.1	-	-	-	ASTM D150	-
Dielectric strength	55	-	-	-	ASTM D149	KV/mm
Volume resistivity	10 ¹⁸	۱· ^{۱۸}	۱· ^{۱۸}	-	ASTM D257	Ω/cm
Coefficient of liner expansion	16×10 ⁻⁵	9.5×10 ⁻⁵	9.5×10 ⁻⁵	9.5×10 ⁻⁵	ASTM D831	°C ⁻¹
Max.Continuous operating temp.	250-260	250-260	250-260	۲۵۰-۲۶۰	-	°C
Service temperature	-200-+260	-200-+260	-200-+260	-200-+260	-	°C
Thermal conductivity	0.23	0.64	0.6	4 0.74	ASTM D2214	W/mk

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