

Material Data Sheet

Trade name	Virgin PTFE		
DIN EN ISO 1043 designation	PTFE		
<i>Properties</i>	<i>Unit</i>	<i>Test Method (ASTM)</i>	<i>Value</i>
Physical Properties			
Density	g/cm3	D792	2.17
Refractive Index			1.35
Water absorption (24h / 3.2mm thickness)	%	D570	< 0.01
Mechanical Properties			
Tensile strength	N/mm2	D638-D1708	25-30
Elongation	%	D638-D1708	25-40
Tensile Modulus	N/mm2	D638-D1708	750
Flexural Modulus	N/mm2	D638-D1708	44-52
Shore D Hardness		D2240	65
Thermal Properties			
Flame Transmission		D635	none
Linear thermal expansion	10-5/C	D696	10
Thermal conductivity	cal/s/cm/C	C177	9 x 10-4
Working Temperature	C		260
Specific heat	cal/deg/C/g		0.25
Electrical Properties			
Dielectric strength	kV/mm	D149	24
Dielectric constant		D150	2.2
Surface Resistivity	ohm	D257	> 107
Volume resistivity	ohms cm	D257	>1018