



PTFE Technical Data Sheet

PROPERTIES	Test Method	Unit	Value
I . Physical Properties			
Density	ISO 1183	g/cm ³	2.18~2.2
Water absorption 24hrs	ISO 62	%	< 0.05
II .Thermal Properties			
Heat deflection temperature - HDT/A	ISO 75A	°C	-
Min. service temperature		°C	-180
Max. service temperature		°C	260
Thermal conductivity at 23 °C	DIN 11359	W/(K*m)	0.25
Coefficient of linear thermal expansion	ISO 11359	10 ⁻⁴ *K ⁻¹	1.2
Flammability Rating(6mm thickness)	UL 94	-	V-0
III.Mechanical Properties at 23°C			
Tensile strength at yield	ISO 527-2	MPa	25
Tensile strength at break	ISO 527-2	Mpa	-
Elongation at break	ISO 527-2	%	50
Modulus of elasticity after tensile test	ISO 527-2	MPa	700
Modulus of elasticity after flexural test	ISO 178	MPa	-
Hardness - Shore D	DIN 53505		55
Charpy impact strength	ISO 179	kJ/m ²	N. B.
Friction coefficient	DIN 53375		0.08
IV. Electrical Properties at 23°C			
Dielectric constant at 1 MHz	IEC 60250	10 ⁶ Hz	2.1
Dielectric loss factor at 1 MHz	IEC 60250	10 ⁶ Hz	0.0002
Volume resistivity	IEC 60093	Ohm (Ω) * cm	> 10 ¹⁶
Surface resistivity	IEC 60093	Ohm (Ω)	> 10 ¹⁶
Dielectric strength	IEC 60243-1	kV/mm	48
NOTE: 1 g/cm³ = 1,000 kg/m³, 1 Mpa = 1 N/mm², 1kV/mm = 1 MV/m			

Statement:

Property data contained herein are typical values of resin for your reference and comparison purposes only. PRIOR will not provide any legally binding guarantee of certain properties, or any suitability.