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## MC Nylon Technical Data Sheet

PROPERTIES	Test Method	Unit	Value
<b>I . Physical Properties</b>			
Density	ISO 1183	g/cm3	1.15~1.2
Water absorption 24hrs	ISO 62	%	2.5
<b>II . Thermal Properties</b>			
Heat deflection temperature - HDT/A	ISO 75A	°C	95
Min. service temperature		°C	-30
Max. service temperature		°C	105
Thermal conductivity at 23 °C	DIN 11359	W/(K*m)	0.23
Coefficient of linear thermal expansion	ISO 11359	10 <sup>-4</sup> *K <sup>-1</sup>	0.8
Flammability Rating(6mm thickness)	UL 94	-	HB
<b>III.Mechanical Properties at 23 °C</b>			
Tensile strength at yield	ISO 527-2	MPa	80
Tensile strength at break	ISO 527-2	Mpa	-
Elongation at break	ISO 527-2	%	3
Modulus of elasticity after tensile test	ISO 527-2	MPa	3,300
Modulus of elasticity after flexural test	ISO 178	MPa	-
Hardness - Shore D	DIN 53505		84
Charpy impact strength	ISO 179	kJ/m2	N. B.
Friction coefficient	DIN 53375		0.36
<b>IV. Electrical Properties at 23 °C</b>			
Dielectric constant at 1 MHz	IEC 60250	10 <sup>6</sup> Hz	3.70
Dielectric loss factor at 1 MHz	IEC 60250	10 <sup>6</sup> Hz	0.03
Volume resistivity	IEC 60093	Ohm (Ω) * cm	≥10 <sup>15</sup>
Surface resistivity	IEC 60093	Ohm (Ω)	≥10 <sup>13</sup>
Dielectric strength	IEC 60243-1	kV/mm	50
<b>NOTE: 1 g/cm3 = 1,000 kg/m3, 1 Mpa = 1 N/mm2, 1kV/mm = 1 MV/m</b>			

### 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.