



# PRIOR PLASTIC CO., LTD.

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## PMMA/Acrylic Technical Data Sheet

PROPERTIES	Test Method	Unit	Value
<b>I . Physical Properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.19
Water absorption 24hrs	ISO 62	%	< 0.3
<b>II .Thermal Properties</b>			
Heat deflection temperature - HDT/A	ISO 75-2	°C	98
Max. service temperature - Short term		°C	93
Max. service temperature - Long term		°C	-
Thermal conductivity at 20 °C	DIN 11359	W/(K*m)	0.18
Transmittance at 3mm wall thickness	DIN 5036	%	93
Coefficient of linear thermal expansion	ISO 11359	10 <sup>-4</sup> *K <sup>-1</sup>	0.6
Flammability Rating	UL94		HB
<b>III.Mechanical Properties at 23°C</b>			
Tensile strength at yield	ISO 527-2	MPa	72
Tensile strength at break	ISO 527-2	Mpa	-
Elongation at break	ISO 527-2	%	≥2
Modulus of elasticity	ISO 527-2	MPa	3200
Hardness-Rockwell	ISO 2039-2		-
Hardness - Shore D	DIN 53505		88
Notch impact strength	ISO 179	kJ/m <sup>2</sup>	1.6
Friction coefficient	DIN 53375		0.5
<b>IV. Electrical Properties</b>			
Dielectric constant at 1 MHz	IEC 60250	10 <sup>6</sup> Hz	3.00
Dielectric loss factor at 1 MHz	IEC 60250	10 <sup>6</sup> Hz	0.02
Surface resistivity	IEC 60093	Ohm (Ω)	≥10 <sup>13</sup>
Dielectric strength	VDE 0303	kV/mm	20-40
<b>NOTE: 1 g/cm<sup>3</sup> = 1,000 kg/m<sup>3</sup>, 1 Mpa = 1 N/mm<sup>2</sup>, 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.