



PRIOR PLASTIC CO., LTD.

B2,Zhonghua Industrial Zone, Minzhi Street, Longhua, Shenzhen,China

www.priorplastic.com info@priorplastic.com

Tel: +86-755-33053328

ABS Technical Data Sheet

PROPERTIES	Test Method	Unit	Value
I . Physical Properties			
Density	ISO 1183	g/cm ³	1.05
Water absorption 24hrs	ISO 62	%	0.3
II .Thermal Properties			
Heat deflection temperature - HDT/A	ISO 75-2	°C	88
Min. service temperature		°C	-40
Max. service temperature-Long Term		°C	75
Thermal conductivity at 23 °C	DIN 11359	W/(K*m)	0.17
Coefficient of linear thermal expansion	ISO 11359	10 ⁻⁴ K ⁻¹	0.8
Flammability Rating(6mm thickness)	UL 94	-	HB
III.Mechanical Properties at 23°C			
Tensile strength at yield	ISO 527-2	MPa	45
Tensile strength at break	ISO 527-2	Mpa	-
Elongation at break	ISO 527-2	%	-
Modulus of elasticity after tensile test	ISO 527-2	MPa	2400
Modulus of elasticity after flexural test	ISO 178	MPa	-
Hardness - Shore D	DIN 53505		70
Charpy impact strength	ISO 179	kJ/m ²	N. B.
Friction coefficient	DIN 53375		0.5
IV. Electrical Properties at 23°C			
Dielectric constant at 1 MHz	IEC 60250	10 ⁶ Hz	3.3
Dielectric loss factor at 1 MHz	IEC 60250	10 ⁶ Hz	0.015
Volume resistivity	IEC 60093	Ohm (Ω) * cm	>10 ¹⁵
Surface resistivity	IEC 60093	Ohm (Ω)	>10 ¹³
Dielectric strength	IEC 60243-1	kV/mm	22
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.