



PRIOR PLASTIC CO., LTD.

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

www.priorplastic.com info@priorplastic.com

Tel: +86-755-33053328

ESD PVC Technical Data Sheet

PROPERTIES	Test Method	Unit	Value
I . Physical Properties			
Density	ISO 1183	g/cm3	1.36~1.38
Water absorption 24hrs	ISO 62	%	0.2
II .Thermal Properties			
Heat deflection temperature - HDT/A	ISO 75-2	°C	60
Min. service temperature		°C	-10
Max. service temperature		°C	55
Thermal conductivity at 23 °C	DIN 11359	W/(K*m)	0.14
Coefficient of linear thermal expansion	ISO 11359	10 ⁻⁴ *K ⁻¹	0.8
Flammability Rating(6mm thickness)	UL 94	-	V-0
III.Mechanical Properties at 23°C			
Tensile strength at yield	ISO 527-2	MPa	55
Tensile strength at break	ISO 527-2	Mpa	30
Elongation at break	ISO 527-2	%	33
Modulus of elasticity after tensile test	ISO 527-2	MPa	-
Modulus of elasticity after flexural test	ISO 178	MPa	3000
Hardness - Shore D	DIN 53505		90
Charpy impact strength	ISO 179	kJ/m2	3
Friction coefficient	DIN 53375		0.6
IV. Electrical Properties at 23°C			
Dielectric constant at 1 MHz	IEC 60250	10 ⁶ Hz	3
Dielectric loss factor at 1 MHz	IEC 60250	10 ⁶ Hz	0.01
Volume resistivity	IEC 60093	Ohm (Ω) * cm	-
Surface resistivity	IEC 60093	Ohm (Ω)	10 ⁶ ~10 ⁹
Dielectric strength	IEC 60243-1	kV/mm	15-37
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.