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ESD Bakelite Technical Data Sheet

PROPERTIES	Method of Verification	Unit	Value
I .Physical Properties			
Density	ISO 1183	g/cm3	1.40
Water absorption 24hrs	ISO 62	%	<1.5
II .Thermal Properties			
Max. service temperature -Short term	ISO 75-2	°C	300
Max. service temperature - Long term	ISO 75-2	°C	120~130
Heat deflection temperature-HDT/A	ISO 75-2	°C	150
Coefficient of liner thermal expansion	ISO 11359	10-4*K-1	10
Thermal Conductivity	ISO 11359	W/(K*m)	/
Flammability	UL 94	Class	HB
III .Mechanical Properties			
Tensile strength at yield	ISO 527-2	MPa	≥100
Tensile strength at break	ISO 527-2	Mpa	/
Hardness Rockwell	ISO2039-2		115~118
Hardness Shore-D	DIN 53505		98
Impact strength	ISO 179	kJ/m2	67
Bending Strength	ISO 527-2	Mpa	≥120
Elongation at break	ISO 527-2	%	≥0.03
Warping Degree	ISO 179	‰	<0.3
IV.Electrical Properties			
Volume resistivity	IEC 60093	Ohm (Ω) * cm	/
Surface resistivity	IEC 60093	Ohm (Ω)	10^6~10^9
Breakdown Voltage-CW	VDE 0303	kV	10
Arc resistance	VDE 0303	S	/
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.