



PRIOR PLASTIC CO., LTD.

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

www.priorplastic.com info@priorplastic.com

Tel: +86-755-33053328

ESD FR4 Fiberglass Technical Data Sheet			
Technical Data	Method of Verification	Unit	Value
I .Physical Properties			
Density	ISO 1183	g/cm3	2.0±0.1
Water absorption 24hrs	ISO 62	%	0.10
III .Thermal Properties			
Max. service temperature -Short term	ISO 75-2	°C	280
Max. service temperature - Long term	ISO 75-2	°C	150
Coefficient of Thermal Expansion-LW	ISO 11359	m/K	11
Coefficient of Thermal Expansion-CW	ISO 11359	m/K	15
Thermal Conductivity	ASTM D5930	W/(m·K)	0.36
Flammability	UL 94	Class	V-0
II .Mechanical Properties			
Tensile strength at yield	ISO 527-2	MPa	≥240
Tensile strength at break	ISO 527-2	Mpa	/
Hardness Rockwell	DIN 53505		110
Izod impact strength	ISO 179	kJ/m2	≥33
Bending Strength	ISO 527-2	Mpa	/
Flexural strength	ISO 179	Mpa	≥350
Adhesive Strength	ISO 179	N	/
Compressive strength-Flatwise	ISO 179	Mpa	≥415
IV.Electrical Properties			
Volume resistivity	IEC 60093	Ohm (Ω) * cm	/
Surface resistivity	IEC 60093	Ohm (Ω)	10 ⁶ ~10 ⁹
Electric strength	VDE 0303	kV/mm	≥13.7
Breakdown Voltage	VDE 0303	kV	55
Relative dielectric coefficient	VDE 0303	/	≤5.5
Dielectric Loss mudule	VDE 0303	50HZ	≤0.02
Arc resistance	VDE 0303	Sec	>100
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.