

Technical Specification for Fiber Glass Epoxy Sheet – NEMA FR-4

Item	Unit	Value
JIS Grade	-	EL-GEH EL-GEF
NEMA Grade	-	FR-4
Dielectric Perpendicular to Laminations by Voltage (in a Minute)	KV/mm	15~20
Dielectric Breakdown Perpendicular to Laminations by Voltage	KV/mm	23~55
Dielectric Parallel to Laminations by Voltage (in a Minute)	KV/mm	25
Dielectric Breakdown Parallel to Laminations by Voltage	KV/mm	45~60
Object Insulation Resistance	Ω .cm	5×10^{13}
Surface Insulation Resistance	Ω	5×10^{14}
Elongations Strength	Kg/mm ²	20~28
Flexural Strength	Kg/mm ²	35~45
Compressive Strength	Kg/mm ²	35~45
Impact Strength	Kg.cm/mm ²	50~70
Specific Gravity	-	1.9~2.1
Hardness	HR-R	120~125
Color	-	Yellow
Water Absorption	%	0.14
Heat Resistance	°C / 2Hr	180