

FR4 Epoxy Sheet Properties Data Sheet

Test Item	Testing Method	Unit	Material: Epoxy resin, Fiber Glass
			FR4 Epoxy
Density		g/cm3	2
Flammability	A	FV	0
Work Temperature	C-96/20/65	C	170 ~ 180
Vertical Layer Direction Electrical Voltage	C-96/20/65 (in25°C oil)	KV/m	12
Parallel Layer Direction Breakdown voltage			18
Electric Arc Resistant	C-96/20/65	S	60-80
Inductivity	C-96/20/65 +D-48/50	(IMHZ)	4.0-5.0
Volume Resistivity	C-96/20/65 +C-96/40/90	Ω-cm	5*10 ¹¹ -10 ¹³
Surface Resistivity	C-96/20/65 +C-96/40/90	Ω	5*10 ¹¹ -10 ¹²
Vertical layer Direction Compressive Strength	A	kg/mm2	29-34
Parallel layer Direction Compressive Strength			19-24
Parallel layer Direction Flexural Strength	A	kg/mm2	40-50
Vertical Layer Direction impact strength	A	KJ/m2	45-55
Cracking Resistance Strength	A	kg	850-1000
Water absorption	E-24/50 +D-24/23	%	0.07-0.12

Statement:

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Energetic will not provide any legally binding guarantee of certain properties, or any suitability.