

CEM-30

CEM-3 COPPERCLAD LAMINATE

UL Recognised flame retardant CEM-3 copper clad composite laminate offering excellent electrical performance along with good punching characteristics

Characteristics	Flame Retardant, Excellent electrical and punching properties	
Colours	Blue	
Thickness	1.5 mm to 3.2 mm	
Copper	18 μm, 35 μm or 70 μm	
Sheet Size	1220 mm x 1060 mm (panel sizes cut on request)	

		units	test method
GENERAL PROPERTIES			
Relative Density	1.9	g/cm³	
Temperature Rating	130 (Class B)	°C	
Flammability	V-0	-	UL-94
Water Absorption	0.15	% (1.6 mm)	IPC-TM-650 2.6.2.1
Glass Transition Temperature	115	°C	IPC-TM-650 2.4.25
MECHANICAL PROPERTIES			
Flexural Strength	275	MPa (1.6 mm)	IPC-TM-650 2.4.4
Copper Peel Strength	1.8	N/mm (35 µm)	IPC-TM-650 2.4.8
Solder dip at 260°C	>30	S	
ELECTRICAL PROPERTIES			
Volume Resistivity C-96/35/90	106	MΩcm	IPC-TM-650 2.5.17.1
Surface Restivity C-96/35/90	2 x 10 ⁶	ΜΩ	IPC-TM-650 2.5.17.1
Dielectric Breakdown	50	kV	IPC-TM-650 2.5.6
Dissipation Factor at 1 MHz	0.022	-	IPC-TM-650 2.5.5.3
Permittivity at 1 MHz	4.2	-	IPC-TM-650 2.5.5.3
Comparative Tracking Index	>200	V	IEC 112/DIN 53480 Kc

CONDITIONING

C-96/35/90 – 90% Relative Humidity @ 35°C for 90 hours

SPECIFICATION COMPLIANCE

NEMA LI-1 CEM-3; IPC-4101/12

ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

QUALITY SYSTEM APPROVAL

Certified by NSAI to I.S. ENISO 9001:2015 Reg. No. IE-19.0675.

PRODUCT APPROVAL

Recognised by Underwriters Laboratories file ref. E53727







