

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 3.2mm
Copper	18 µm, 35 µm or 70 µm
Sheet Size	1220 mm x 1060 mm (panel sizes cut on request)

	<i>units</i>	<i>test method</i>
GENERAL PROPERTIES		
Relative Density	1.9 g/cm ³	
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	10 ⁶ MΩcm	IPC-TM-650 2.5.17.1
Surface Resistivity C-96/35/90	2 x 10 ⁶ MΩ	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

NEMAL1 1998 CEM-3; EN 60249-2 10:1994; IEC 249-2-10:1987

ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

QUALITY SYSTEM APPROVAL

Certified by NSAI to I.S. EN ISO 9001:2008

PRODUCT APPROVAL

Recognised by Underwriters Laboratories file ref. E53727