



Version: 1.0

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## DATA SHEET – 4W/EP

### DESCRIPTION

Presspahn Limited's 4W/EP is a general purpose FR-4 epoxide resin laminate, based on a medium weave glasscloth, with excellent electrical, mechanical and flame resistant properties.

<b>Characteristics</b>	Excellent electrical and mechanical properties.
<b>Colours</b>	Pale Green / Pale White
<b>Thickness</b>	Thickness in the range of 0.2 mm to 100 mm is available on request
<b>Sheet Size</b>	1220 mm x 910 mm, panel sizes cut on request

General Tests on Laminates	UNITS	4W/EP
Relative Density	( 3 mm )	1.89 - 195
Temperature Classification		130 °C (Class B)
Water Absorption		10
Flammability		V-0

Mechanical Tests on Laminates	UNITS	4W/EP
Flexural Strength	MPa	470
Izod Impact Strength	KJ/m <sup>2</sup>	65
Shear Strength	MPa	55
Tensile Strength	MPa	350
Compressive Strength Flatwise	MPa	500

Electrical Tests on Laminates	UNITS	4W/EP
Insulation Resistance	MΩ	10 <sup>5</sup>
Dielectric Strength Flatwise	MV/m ( 1.6 mm )	14
Dielectric Strength Edgewise	kV ( 3 mm )	60
Dissipation Factor at 1 MHz	-	0.026
Permittivity at 1 MHz	-	4.5

### 4W/EP complies with the following specifications

BS 3953: 1990 EP-4  
NEMA L1-1-1989 FR-4  
EN 60893-3-1: 1994 / EP GC 202  
DIN 7735:1975 Hgw 2372.1

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