

TECHNICAL DATA SHEET

PERMAGLASS 22FER28

May 2020, Issue 8

WOVEN GLASS EPOXY LAMINATE

BENEFITS

- Excellent Mechanical Properties
- Fire Retardant / Self Extinguishing
- Good Machining Characteristics
- BS EN 60893-3-1, EP GC 202 and meets NEMA FR4.

APPLICATION

Permaglass 22FER28 is constructed from a woven glass fibre which has been impregnated with fire retardant epoxy resin. This material offers high mechanical strength and stiffness, coupled with excellent electrical insulating properties.

PHYSICAL:		
Specific Gravity	1.9	BS. 2782 Part 6 (620A)
Water Absorption	0.06%	BS EN ISO 62
Temperature Classification	B (130°C)	BS EN 60085
MECHANICAL:		
Flexural Strength	530MPa	BS EN ISO 178
Flexural Modulus	20GPa	BS EN ISO 178
Tensile Strength	280MPa	BS. 2782 Part 10 (1003)
Shear Strength	140MPa	BS. 2782 Part 3 (340B)
Compressive Strength	480MPa	BS EN ISO 604
Impact Strength	5ft/lb ½" Notch	BS EN ISO 180
ELECTRICAL:		
Electrical Strength	16kv/mm	BS EN 60243-1
Insulation Resistance	>10 ¹⁰ Ohms	BS.2782 Part 2 (232)
Loss Tangent (50 Hz 20°C)	.006	BS 7663
Permittivity (50Hz 20°C)	5.0	BS 7663
Comparative Tracking Index	250 V	BS EN 60112
Arc Resistance	120 seconds	ASTM D495-85

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TYPICAL PROPERTIES Typical Value Test Method

STANDARD SHEET SIZE:

1220 x 1220 mm (48" x 48")

2440 x 1220 mm (96" x 48")

Thickness range 0.5mm to 50mm

Other sizes available on request

Information given in this technical data sheet is based on Permal's internal manufacturing and testing methods but is given without acceptance of liability.

Permal strongly recommends customers carry out their own trials to ensure the products is suitable for the planned application.