

TECHNICAL DATA SHEET

Permali
Gloucester

25/10/02 Issue 03

PERMAGLASS 22FF/2

WOVEN GLASS PHENOLIC LAMINATE

FEATURES:

- ♦ Excellent fire resistance
- ♦ Low smoke and toxic fume emissions
- ♦ Easy to machine
- ♦ Meets BS3953 PF2

Permaglass 22FF/2 is a high performance woven glass/phenolic laminate with exceptional fire resistance and a high strength to weight ratio. It can be supplied in a wide range of sheet sizes and thicknesses, and is easily machined into complex shapes. This material also offers low smoke and toxic fume emissions and so is particularly suited to internal panelling and fire barrier applications.

<u>Properties</u>	<u>Typical Value @ 3mm Thickness</u>	<u>Test Method</u>
PHYSICAL:		
Temperature Classification (130°C)	Class B	BS.2757
Specific Gravity	1.90	BS.2782 Pt 6 (620A)
Water Absorption	8 mg	BS.2782 Pt 4 (430A)
MECHANICAL:		
Flexural Strength	540 MPa	BS EN ISO 178
Flexural Modulus	21 GPa	BS EN ISO 178
Shear Strength	130 MPa	BS.2782 Pt 3 (340B)
Compressive Strength	530 MPa	BS EN ISO 604
ELECTRICAL:		
Electric Strength, edgewise	35 kV	BS.3953 App.C
Electric Strength, flatwise	7 kV/mm	BS.3953 App.H
Insulation Resistance	10 ³ M.Ohms	BS.3953 App.E

<u>Properties</u>	<u>Test Method</u>	<u>Typical Value @ 3mm Thickness</u>
FLAMMABILITY:		
Flammability Category	BS.3953 App.F	FVO
Smoke emission in 3 metre cube	BS.6853	A _o (on) 1.0 A _o (off) 1.2
Smoke density in NBS chamber to technical note 708 in flaming mode.	1.5 minutes	18
Toxicity after 4 minutes in NBS chamber.	4.0 minutes	26
Draeger Tube analysis		
Toxicant	CO	HCN
Concentration (ppm)	190	4
	HF	20
	HCl	0
	SO ₂	0
	NO ₂	12

STANDARD SHEET SIZE:

48" x 48" (1220 x 1220 mm)

96" x 48" (2440 x 1220 mm)

Thickness range 0.5 mm to 50 mm

Other sizes may be available on request

Can be supplied with optional Tedlar finish on one or both faces.