



## PVC Calibrated Foam Sheet

**Brett Martin** PVC calibrated foam sheet is a white closed cell, unplasticised PVC foam manufactured using new extrusion technology. The calibrated PVC foam has a smooth semi matt, hard surface finish. Excellent for fabrication, routing applications, applications for high moisture areas, etc.

<b>Colour</b>	White
<b>Standard sheet sizes</b>	1220x2440mm 1220x3050mm 1220x4000mm
<b>Thickness</b>	10mm 19mm 24mm 30mm

### Applications

Typical end uses:

Signage	Shop Outfitting
Display	Digital Printing
Wall Cladding	Insulation Panel
Partitioning	False Ceiling
Fabrication	Models
Furniture	Shelving
Letters	Backing panels for illuminated sign boxes

### Service Temperature

Can be installed in a diversity of applications, with varying temperatures. The material's mechanical performance is known to remain stable in prolonged service in temperatures ranging from -20 to +60°C.

### Installation

Applications of calibrated PVC foam must make adequate allowance for thermal movement. Appropriate clearance must be allowed if holes are drilled for fixing and in rebates of support frames.

### Fabrication

Calibrated PVC foam can be sawed, routed, drilled using basic wood and metal working tools. When working with any power tool, the sheet temperatures must be kept below the material softening point of 70°C as excessive heat build-up can result in deformation, softening and surface deterioration or discolouration of the sheet substrate. Compressed air is a suitable and easy to apply coolant.

### Print Preparation

For a sheet clean and protected by film, only ionization or static brush is required. Lukewarm water and ordinary non-abrasive household detergent and a sponge or soft cloth is normally sufficient for degreasing and cleaning prior to secondary operations the following solvents are suitable: methyl alcohol or methylated spirits.

### Static

Rinsing the surface with water or antistatic cleaning agent can reduce static charge. Another method is to blow down the sheet with ionised air. The effect of this treatment is short term but usually sufficient for subsequent operations.



Brett Martin Ltd. pursues a policy of continuous product development and reserves the right to amend specifications without notice.

Brett Martin Ltd., 24 Roughfort Road, Mallusk, Co. Antrim, N. Ireland, BT36 4RB.

Tel: +44 (0)28 9084 9999 Fax: +44 (0)28 9083 6666 E-mail: [technical@brettmartin.com](mailto:technical@brettmartin.com)

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# PRODUCT DATA SHEET

## Typical Material Properties

	Value
<b>Physical</b>	
Base polymer	Polyvinyl Chloride (PVC)
Smell	Odourless
Moisture absorption (24 hrs @ 23°C)	2% by weight
Water solubility	Insoluble
Specific Gravity/Relative Density	0.50 g/cm <sup>3</sup>
<b>Mechanical</b>	
Flexural Modulus	1000MPa
Impact resistance (falling dart)	7kJ
Shore hardness	>40
<b>Thermal</b>	
Vicat softening temperature	>70°C
Thermal expansion coefficient	0.068mm/m°C
Service temperature range	-20 to +60°C



Plastic Sheets

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