APPLICATIONS

FABRICATION

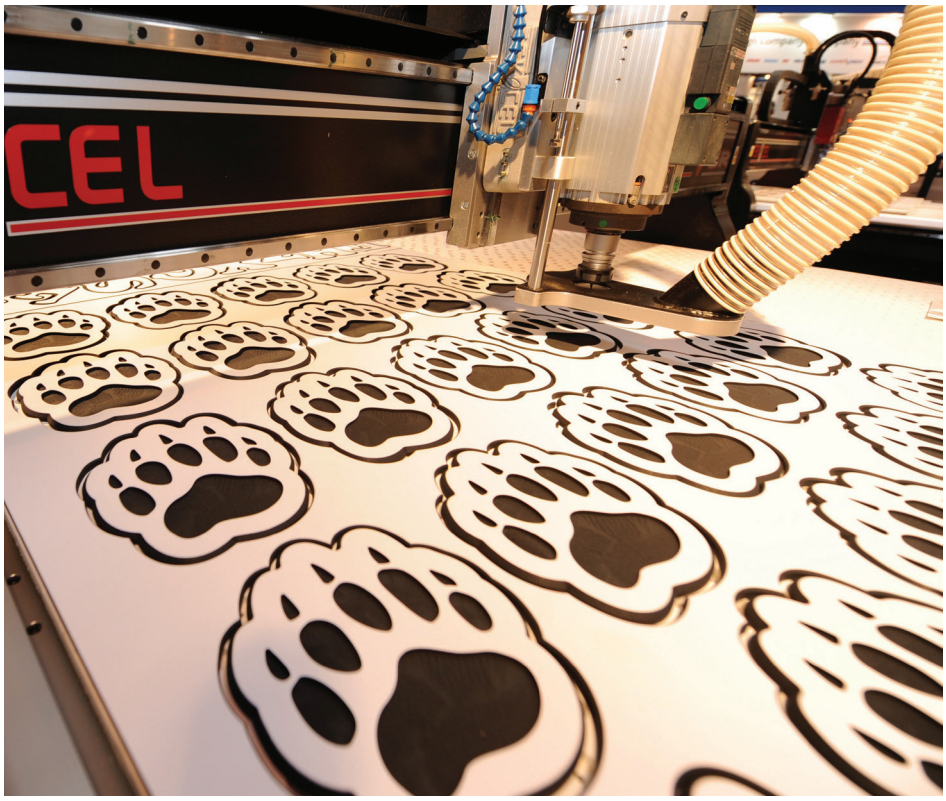
PRINT & DISPLAY

foamalux XTRA

RECYCLED FOAM PVC SHEET

UP TO 80% RECYCLED CONTENT 80%

Make a greener choice with Foamalux Xtra, the recycled range of foam PVC from Brett Martin. Manufactured with a recycled black core, a premium quality white surface is co-extruded from virgin PVC material ensuring a smooth, even layer for print and display, creating a better quality finish for all types of processing. Xtra's high density surface provides excellent resistance whilst the colour formulation of this surface layer has been developed specifically for digital processing to maximise colour reproduction and minimise the occurrence of UV yellowing resulting in a brighter whiter sheet with 'green' credentials. Containing up to 80% recycled content, the white surfaces and black core of Foamalux Xtra provide endless creative design opportunities.



OPTIONS

Foamalux Foamalux S1 – composite rigid foam PVC sheet with a base of recycled material and a co-extruded smooth surface of virgin material.

Thicknesses: 3 & 5mm
Width: 1220mm
Lengths: 2440 & 3050mm

FOAMALUX XTRA S1	WHITE
1220 x 2440	3 & 5mm
1220 x 3050	3 & 5mm

Foamalux Xtra S2 – composite of rigid foam PVC sheet with a core of recycled material sandwiched between two layers of co-extruded virgin material.

Thicknesses: 10, 19mm
Widths up to: 1560mm

FOAMALUX XTRA S2	WHITE
1220 x 2440	10, 19 mm
1220 x 3050	10mm
1220 x 4050	10mm
1560 x 3050	10mm, 19mm
1560 x 4050	10mm

MAIN BENEFITS

- Recycled black core
- Bright white surface
- Consistently smooth and even
- Quality digital and screen printing
- Quality digital and screen printing
- Environmentally sound
- Light and cost-effective
- Hard and resilient
- Versatile

APPLICATIONS

The range offers superb screen printing and direct to substrate digital printing results, the product gives excellent effects when routered or engraved.

- Shop outfitting, exhibition stands and displays
- Signage and point of purchase/sale
- Vinyl application and photo mounting
- Screen printing
- Direct digital printing

UP TO 80% RECYCLED CONTENT 80%

foamalux XTRA

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUE
Base Polymer		Polyvinyl Chloride (PVC)
Smell		Odourless
Moisture absorption (24 hrs @ 23oC)	DIN 53495	<0.25% by weight
Water solubility	DIN 53122	Insoluble
Oxygen index		48%
Tensile strength at yield	DIN 53455	16MPa
Modulus of elasticity	DIN 53457	0.9MPa
Elongation at break	DIN 53455	27%
Flexural strength	DIN 53452	27MPa
Impact resistance (Charpy test, un-notched)	DIN 53453	15kJ/m^2
Average sheet hardness	DIN 53505	> 30 Shore D
Vicat softening temperature	DIN 53460	76°C
Thermal conductivity	DIN 52612	0.085 W/m.K
Thermal decomposition temperature		>200°C
Thermal resistance, R (3mm)	CEN 492	0.20 m^{2o}k/W
Thermal expansion coeffi cient	DIN 53752	68m/m.K x 10^{-6}
Service temperature range		-20 to 60°C
Dielectric strength	DIN 53481	~100kV/cm
Surface resistance	DIN 53482	>10^{12} Ω
Volume resistivity	DIN 53482	4x10^{15} Ω cm
Dielectric constant (1kHz)	DIN 53483	2.4
Dielectric dissipation factor (1kHz)	DIN 53483	0.013
Comparative Tracking Resistance	DIN IEC 112	600 V
Sound attenuation (3mm) (100-3500hz)		19dB

PRODUCT RANGE

PRODUCT	PRODUCT DESCRIPTION
Foamalux Colours	Extruded foam PVC sheet (unplasticised) available in a vibrant palette of bright white and 15 colours
Foamalux White	Extruded foam PVC sheet (unplasticised) which optimises reproduction capabilities and UV stability to achieve outstanding print clarity and quality. Available in white only.
Foamalux Ultra	Extruded foam PVC sheet (unplasticised) with a weatherable high gloss finish in white and 6 dynamic colours
Foamalux Xtra	Co-extruded foam pvc sheet (unplasticised) with a black recycled core and co-extruded white surface

FABRICATION

The Foamalux Xtra range provides a versatile material with a high strength to weight ratio that can be easily worked with using basic wood and metal working tools and easily transported due to its lightweight nature.

Cutting – using a cutting knife or a straight, finely serrated blade mounted on a hand-saw, band saw, disc (circular) saw or jigsaw. Sheets exceeding 3mm must be sawn. It is also suitable for sawing, drilling, milling, routing and guillotining.

Fastening – Panels can be fixed to supporting structures using screws, rivets, nails and adhesive.

Bonding – can be bonded to itself or other materials.

Drilling – can be drilled using any conventional drill.

Welding – either by hot air welding or butt welding.

Die Cutting – flat shapes with complex outlines can be die cut from thinner sheets.

CHEMICAL RESISTANCE

Foamalux Xtra rigid foam PVC, is resistant to most chemicals and atmospheric pollutants. Contact with solvents and wet wood preservatives must be avoided. See technical guide for full information details.

THERMOFORMING

Components which are relatively simple and shallow in form are thermoformable from Foamalux Xtra. An elastic state is reached between the temperature range 115-130°C.

Folding – can be folded on a simple jig fitted with a forming tool having a radius of about two and a half times the sheet thickness.

Draping – by softening a panel to an elastic state, draping over an appropriately shaped pattern and retaining it until cooled and rigid.

INSTALLATION

Applications of Foamalux must make adequate allowance for thermal movement. Sufficient clearance must be allowed if holes are drilled for fixing and in rebates of support frames. For further guidelines on usage or installation instructions, please refer to the Foamalux product guide.

WEATHER & UV RESISTANCE

Foamalux Xtra can be used for a number of short term exterior applications. Applications most shaded from direct sunlight will retain colour longest.

Climate, location and project specifications should be taken into account when considering Foamalux foam PVC for outdoor projects.

FIRE PERFORMANCE

Foamalux has been independently tested to various European Fire Test Standards. Contact the technical department for the most up to date certification.

REMEMBER

Foamalux Colours is available in a vibrant palette of bright white and 15 colours; Foamalux White optimises reproduction capabilities and UV stability to achieve outstanding print clarity and quality; Foamalux Ultra provides a weatherable high gloss finish in white and 6 dynamic colours;Visit the website for further details.

BSI BS EN ISO 9001:2008

RoHS Compliant Heavy Metal Free

BRETT MARTIN

Plastic Sheets

Tel +44 (0) 28 9084 9999

Fax +44 (0) 28 9083 6666

mail@brettmartin.com

www.brettmartin.com