

STORMBRITE Performance Standard



Introduction

STORMBRITE is a lightweight, versatile, flexible, and durable foamed PVC sheet that is ideal for use in advertising, construction and cladding. STORMBRITE has a laminated hard glossy finish to one side. Printers and advertisers benefit from its constantly smooth and bright surface for producing high quality displays.

Main Benefits

- Tested and approved for digital printing
- Bright white, smooth and uniform surface
- Laminated gloss finish
- Good insulation, lower heat transmission
- Non-toxic
- Flammability: self-extinguishing
- Half the weight of solid PVC sheets
- Same thickness at lower cost
- Good mechanical properties
- Easily worked with conventional tools, prints and paints
- Can be easily bonded, nailed and bolted
- Low water absorption
- High chemical resistance
- Meet various international standards
- Wall Cladding – used for wall cladding in wipe-clean areas for an easy to maintain surface.

Typical Applications

Advertising - Signs, displays, interior decoration, exhibition graphics, cladding etc.

Construction - Models, partitions, wall cladding, interior decoration.

Industry - Control cabinets and panels, structures for corrosive environments, ducts, etc.

Serigraphy (Screen Printing) - STORMBRITE's flat, consistent surface makes it ideal for screen printing. It is suitable for use with aqueous and solvent-based inks. STORMBRITE's sheet surface has low absorption giving excellent ink yield.

Digital Printing - STORMBRITE was approved by major digital flatbed printer manufacturers, and is suitable for use with digital inks and UV curing.

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Typical Physical Properties

Property	ASTM Method	Conditions	Units	Value
Density	D-792		g/cm ³	0.55-0.7
Water Absorption	D-570	24 hr @ 23 °C	%	0.5-0.8
Flexural strength at Yield	D-790	1 mm/min	MPa	28*
VICAT Softening Temp	D-1525	Load: 1kg	°C	75
Coefficient of thermal linear expansion	D-696		cm/cm °C	6.7 x 10 ⁻⁵
Thermal conductivity	C-177		W/m K	0.06-0.07
Surface Resistance	D-257		Ohm	5 x 10 ¹⁵
Volume Resistance	D-257		Ohm-cm	2 x 10 ¹⁶

Flammability

STORMBRITE is self extinguishing and complies with the most demanding international fire resistance standards defined in the field of plastics, as indicated by representative results in the table.

Standard	Classification
EN 13501	B,-,s1,d0
DIN 4102	B-1
BS 476/7	Class 1
NSP 92501,5	M-1,M-2
UL 94	V-0

Fabrication Tips

STORMBRITE is easily handled, cut and fabricated using conventional tools and equipment, and can be printed, painted or laminated.



A unique hard glossy layer is laminated with the sheet to provide maximum quality and durability.