

BOTO Plastics

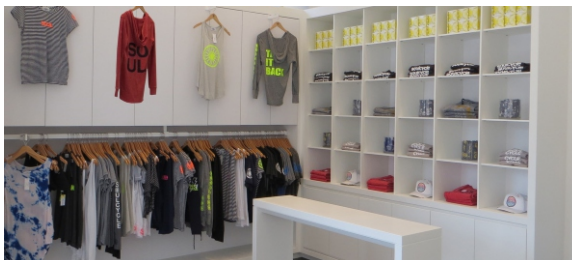
# **BOTOFOAM**

Lightweight PVC Foam Sheets

NOT JUST PLASTICS

## About BOTO Plastics

BOTO Plastics was founded in 2016 and is a leading global supplier of semi-finished extruded thermoplastic sheets, panel systems and finished products. Our diverse product range is manufactured in-house at our international manufacturing sites located in China and Malaysia. BOTOFOAM PVC foamed sheets are designed to suit a diverse range of applications in various markets, which include construction and architectural projects, DIY, sign and display, glazing, and fabrication.



## Key areas of application

BOTOFOAM sheets are the perfect choice for those fields of application in which lightweight design and aesthetics are of particular importance. Low weight translates into effortless handling – from initial transport to final finishing.

Areas of use:

- Exhibition and shop design
- Display design
- Printing sector
- Advertising signage
- Room installations and decoration
- Furniture making
- Construction and design

Benefiting from a clearly defined profile of properties, you are certain to find a suitable BOTOFOAM sheet for your application in no time at all.

## Applications

- Agriculture
- Wall & Cladding
- Recreational Vehicle

## PROPERTIES-AT A GLANCE

- Universal sheet for all display applications
- Best mechanical properties and excellent processing capabilities
- High dimensional stability
- Smooth surface finish with high surface hardness
- Robust sheet suitable for interior and exterior applications
- Easy processing
- Three-dimensional formability
- Fire behavior according to:  
>DIN EN 13501-1:B-s1,d0
- Wide range of sheet sizes and thicknesses, special formats available on request

## Focusing on quality

Our commitment to quality and our ambition to meet customers' exacting demands are firmly enshrined within the company.

# BOTOFOAM S

BOTOFOAM SMART - Premium quality for the widest range of applications

## Product

BOTOFOAM S is a superior quality, extremely versatile foam sheet. Impressive technical properties, combined with excellent processability, make it the material of choice for a broad range of applications – from exhibition and shop design to high - quality room installations. Thanks to its low flammability, this product also offers total peace of mind in areas where safety is paramount.

BOTOFOAM S can be fabricated mechanically and thermoformed for three - dimensional applications. It is supplied as standard with polyethene masking film on one side.

## Protective Film

- PE film on one side as standard
- Protective PE film on both sides on request

## Applications

- Signage and display panels
- POS/POP displays
- Screen printed panels
- Digitally printed displays
- Exhibition stands
- Shop fitting
- Wall cladding & partitioning
- Interior design

## PROPERTIES-AT A GLANCE

- Universal sheet for all display applications
- Best mechanical properties and excellent processing capabilities
- High dimensional stability
- Smooth surface finish with high surface hardness
- Robust sheet suitable for interior and exterior applications
- Easy processing
- Three-dimensional formability

## Standard sizes

Dimensions (mm)	Thickness (mm)
1220x2440 / 1220x3050	1-32
1560x3050	1-19
2030x3050	1-19

## Fire performane

Standard	Classification
EN 13501	B, s1-3, d0
UL 94	V-0

# BOTOFOAM SP

BOTOFOAM SMART PRINT – Ideal for printing

## Product

BOTOFOAM SP has been designed specifically for digital direct printing. Boasting a unique formula, it delivers superb printing results with brilliant image reproduction. The smooth, finely structured surface finish facilitates ink acceptance even during high-speed processing. The sheet is suitable for flat applications in fields such as sign-making and advertising, for short-term and medium-term use.

## Protective Film

- PE film on one side as standard
- Protective PE film on both sides on request

## Applications

- Digital and screen printing
- Short-and mid-term advertising campaigns
- Signage
- Ideal lamination substrate
- Flat applications

## PROPERTIES-AT A GLANCE

- Smooth white surface for excellent printing results
- “Ready to use”
- Optimal ink adhesion and colour fastness
- Good dimensional accuracy of the sheets
- Suitable for flat applications

## Standard sizes

Dimensions (mm)	Thickness (mm)
1220x2440 / 1220x3050	1-10
1560x3050	1-10
2030x3050	1-10

## Fire performane

Standard	Classification
EN 13501	B, s1-3, d0
UL 94	V-0

# BOTOFOAM E

BOTOFOAM ECONOMICAL – Quality on a budget

## Product

BOTOFOAM E is a particularly cost-effective solution for signage and short-term design applications. Due to their low weight, the sheets are easy to handle.

## Protective Film

- PE film on one side as standard
- Protective PE film on both sides on request

## Applications

- Signage and display panels
- POS/POP displays
- Screen printed panels
- Digitally printed displays
- Exhibition stands
- Shop fitting
- Wall cladding & partitioning
- Interior design

## PROPERTIES-AT A GLANCE

- Universal sheet for all display applications
- Best mechanical properties and excellent processing capabilities
- High dimensional stability
- Smooth surface finish with high surface hardness
- Robust sheet suitable for interior and exterior applications
- Easy processing
- Three-dimensional formability

## Standard sizes

Dimensions (mm)	Thickness (mm)
1220x2440 / 1220x3050	3-30
1560x3050	3-10
2030x3050	3-10

## Fire performane

Standard	Classification
EN 13501	B, s2, d0
UL 94	V-0

# BOTOFOAM EP

## BOTOFOAM ECONOMICAL PRINT – Cost-efficient printing solution

### Product

BOTOFOAM EP offers easy-to-handle foamed PVC in a cost-efficient version. Its bright, consistent and smooth surface provides a good background for printing and laminating in high-quality stands and displays.

BOTOFOAM EP is flexible, versatile and extremely convenient to work with, cut and fabricate using conventional tools and equipment.

### Protective Film

- PE film on one side as standard
- Protective PE film on both sides on request

### Applications

- Digitally and screen printed panels
- Short-and mid-term advertising campaigns
- Signage
- Ideal lamination substrate
- Flat applications

### PROPERTIES-AT A GLANCE

- Smooth white surface for excellent printing results
- “Ready to use”
- Optimal ink adhesion and colour fastness
- Good dimensional accuracy of the sheets
- Suitable for flat applications

### Standard sizes

Dimensions (mm)	Thickness (mm)
1220x2440 / 1220x3050	3-10
1560x3050	3-10
2030x3050	3-10

### Fire performane

Standard	Classification
EN 13501	B, s2, d0
UL 94	V-0

# BOTOFOAM CO

## BOTOFOAM CO-EXTRUDED SHEET – High Glossy PVC sheet

### Product

BOTOFOAM CO is an innovative sheet that offers the qualities of rigid and foamed PVC together. It combines the surface quality and characteristics of rigid PVC with a reduced weight due to a recycled foamed PVC core.

BOTOFOAM CO is easy to fabricate, making it ideal for a wide variety of sign and display applications.

### Protective Film

- PE film on one side as standard
- Protective PE film on both sides on request

### Areas of use

#### Electrical engineering

- Control cabinets and meter cabinets
- Cable ducts
- Control panels

#### Construction sector

- Heat and sound insulation
- Ducts for air-conditioning and ventilation systems
- Window reveals
- Facades

#### Advertising sector

- Signs
- Displays
- Banner advertising
- Exhibition stands
- Photograph lamination

#### Other

- Traffic signs
- Transport containers
- Modelmaking
- Laboratory equipment
- Furniture construction

### Standard sizes

Dimensions (mm)	Thickness (mm)
1220x2440 / 1220x3050	3-18

### Fire performane

Standard	Classification
EN 13501	B, s2, d0
UL 94	V-0

\* We provide colored outer skins as per request.

# BOTOFOAM CEL

BOTOFOAM CELUKA – Multi-functional rigid PVC sheet

## Product

BOTOFOAM CEL is the product of choice wherever compact surfaces and ease of handling are a must. Offering the benefits associated with efficient and versatile processing, the rigid PVC sheet features a smooth and compact outer skin. Despite its low weight, it boasts enormous stability and a high-quality finish.

## Protective Film

- PE film on one side as standard
- Protective PE film on both sides on request

## Wide Range Of Applications

### Construction

- Room interiors and design
- Interior fittings
- Furniture
- Bathrooms and wet areas

### Exhibition stands, Shop & Pos design

- Shelving
- Cabinets
- Display design
- Signage (screen printing/foil lamination)

### Cladding and Lining For

- Vehicle interiors
- Camper vans, caravans
- Shipbuilding
- Model building

### Mobile Living and Working

- Container lining
- Mobile homes

## Standard sizes

Dimensions (mm)	Thickness (mm)
1220x2440 / 1220x3050	5-32
1560x3050	5-20
2030x3050	5-20

## Fire performane

Standard	Classification
EN 13501	B, s2, d0
UL 94	V-0

# BOTOFOAM COLOR

BOTOFOAM COLOR – More colours, more possibilities

## Product

BOTOFOAM COLOR are through-coloured PVC free-foam sheets with a perfectly even surface finish. Available in six regular colours, they open up a wide range of possibilities for exhibition, signage and display design.

## Protective Film

- PE film on one side as standard
- Protective PE film on both sides on request

## Colours:

- Blue
- Yellow
- Green
- Grey
- Red
- Black

## Applications

- Signage and display panels
- Merchandising display
- POS/POP applications
- Shop fitting
- Exhibition stands
- Decorative wall cladding

## PROPERTIES-AT A GLANCE

- Nine vivid colour shades
- Uniform solid coloured material
- Maximum colour consistency throughout the entire sheet
- Recommended for interior applications or seasonal exterior use (6-month duration)
- Impervious to moisture
- Simple, mechanical processing using standard tools for processing wood and plastics

## Standard sizes

Dimensions (mm)	Thickness (mm)
1220x2440 / 1220x3050	3mm-color 5,6,10,12,15,16,18,20 black only

## Fire performane

Standard	Classification
EN 13501	B, s2, d0
UL 94	V-0

## Material specifications

Our products are subjected to extensive technical assessments as well as endurance testing. Our in-house laboratory is responsible for testing all material specifications and long-term properties on a continual basis.

## Material specifications

		BOTOFOAM S	BOTOFOAM SP	BOTOFOAM E	BOTOFOAM EP	BOTOFOAM COLOR
Tensile modulus of elasticity, MPa, DIN EN ISO 527		900	850	700	750	1000
Flexural modulus of elasticity, MPa, DIN EN ISO 178		1100	1000	800	850	1400
Impact strength, k/m <sup>2</sup> , DIN EN ISO 179		12	12	9	10	12
Shore hardness D (15 s), DIN EN ISO 868		35	32	25	28	35
Mean coefficient of linear thermal expansion, K <sup>-1</sup> , ISO 11359-2		0.7x10 <sup>-4</sup>	0.7x10 <sup>-4</sup>	0.7x10 <sup>-4</sup>	0.7x10 <sup>-4</sup>	0.7x10 <sup>-4</sup>
Specific surface resistance, Ohm, DIN IEC 60093		≥10 <sup>13</sup>	≥10 <sup>13</sup>	≥10 <sup>13</sup>	≥10 <sup>13</sup>	≥10 <sup>13</sup>
Fire behaviour	DIN 4102	B1: 1 to 19mm*	-	-	-	B2 (self-assessment without test certificate)
	NF P 92-501	M1: 3 to 10mm*	M1: 1 to 10mm*	-	-	-
	DIN EN 13501-1	Euroclass B-s3-d0: 1 to 19 mm*	Euroclass B-s3-d0: 1 to 10 mm*	-	Tests pending*	-
Temperature range, °C		0 to +60	0 to +60	0 to +60	0 to +60	0 to +60
Thickness		3mm	3mm	3mm	3mm	3mm
Density		0.55g/cm <sup>3</sup>	0.55g/cm <sup>3</sup>	0.40g/cm <sup>3</sup>	0.45g/cm <sup>3</sup>	0.65g/cm <sup>3</sup>

All specifications are deemed to be approximate values in respect of the specific material and may vary depending on the processing methods used. In general, data specified applies to average values measured on extruded sheets with a thickness of 3 mm. Deviations from the values specified are possible if the sheets in this thickness are not available. Information presented herein is not necessarily applicable to other products (e.g. pipes, solid rods) of the same material or products that have undergone downstream processing. Suitability of materials for a specific field of application must be assessed by the party responsible for processing or the end-user. All technical specifications presented herein are designed merely to provide assistance in terms of project planning. They do not constitute a guarantee of specific properties or qualities.

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