







the choice is clear





PETGlite by Foamalite is a new range of co-polyester sheets that offer excellent solutions for a wide range of indoor and outdoor applications.

PETGlite sheets are highly transparent, lightweight and offer excellent impact resistance at a wide range of temperatures. PETGlite is easy to thermoform at low temperatures with no pre-drying which improves productivity while reducing cycle times and energy costs

PETGlite sheets are easy to print, making it an ideal substrate for the advertising and signage industry. PETGlite sheets, with their excellent mechanical properties, allow designers freedom of design to create complicated shapes and display features in a more cost effective manner.

PETGlite sheets are used in a number of industries from construction, industrial and medical to sign and display.

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# FEATURES & BENEFITS

#### TECHNICAL

- Excellent impact resistance at low temperatures.
- · Good printability.
- Easy thermoforming with fast cycle times.
- · No pre-drying required.
- · Low shrinkage after thermoforming.
- · High level of light transmission.
- Easy to fabricate.
- Easy to bond and glue.
- Suitable for food contact and medical applications (except UV stabilised products).
- Suitable for outdoor use; PETGlite UV 10 year limited guarantee against weathering effects.

#### COMMERCIAL

- Freedom of design for complex, high definition formed parts.
- High productivity in thermoforming and vacuum forming.
- High transparency and colour uniformity.
- Superior print finish on high gloss surface.
- FDA/BGA approved.

## PRODUCT APPLICATIONS

## **BUILDING & CONSTRUCTION**

- Glazing & DIY
- Skylights & Roof Panels
- Car Park Walkway Shelters
- Wall & Ceiling Lighting Panels
- Hygienic Cladding Panels
- Bus Shelters
- Smoke Shelters
- Conservatories

## POINT OF SALE DISPLAYS

- Document Holders
- Vending Machines
- Display Cabinets
- Display Shelving
- Poster Covers
- Flat Signs
- Illuminated Advertising Signs

## INDUSTRIAL EQUIPMENT

- Thermoformed Parts
- Machinery Guards & Glazing
- Industrial Glazing
- Fume Cupboards
- Industrial Trays
- Medical Appliances

## SAFETY EQUIPMENT

- Bicycle Helmets
- Safety Mirrors
- Police Riot Shields



# **PRODUCT RANGE**

#### THICKNESS RANGE

from o.8mm up to 10mm

Standard Thickness

o.8mm 1mm 1.5mm 2mm 3mm 4mm

5mm 6mm 8mm 10mm

#### STANDARD WIDTHS ONLINE

 1000mm
 from o.8mm up to 6mm

 1250mm
 from o.8mm up to 6mm\*

 2050mm
 from o.8mm up to 10mm

#### STANDARD LENGTHS ONLINE

Min 1000mm from 0.8mm up to 10mm
Max 3050mm from 0.8mm up to 10mm

Lengths over **3050mm** are available on special request and will include a surcharge.

### **THICKNESS TOLERANCES**

Up to 1.5mm ±10% 1.5mm - 3mm ± 6%

*Over* 3mm ± 5%

### **ONLINE CUTTING TOLERANCES**

 More than
 1000mm
 -0 + 3%

 Less than
 1000mm
 ± 1.5mm

#### **OFFLINE CUT TO SIZE TOLERANCES**

± 1.00mm

## **PROTECTIVE FILM**

PE Film on both sides as standard.

#### MINIMUM PRODUCTION RUNS FOR

Special Thickness 3 Tons Special Colour 5 Tons

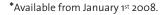
Other thicknesses, sizes and tolerances available on request.

A range of opals, bronzes and colours are available upon request.

PETGlite is available with UV Protection and in Anti Reflective.

NB: The product range listed above is representative of the completed range once full testing is completed on each product.

Please contact our sales office for new product updates.







|  | PHYSICAL         |                       |             |
|--|------------------|-----------------------|-------------|
| Density                                      | ISO1183          | g/cm³                 | 1.27        |
|  | MECHANICAL       |                       |             |
| Tensile Strength @ Yield                     | ISO527           | Мра                   | 50          |
| Tensile Strength @ Breakage                  | ISO527           | Мра                   | No breakage |
| Elongation @ Breakage                        | ISO527           | %                     | >100        |
| Elasticity Modulus in Traction               | ISO527           | Мра                   | 2200        |
| Flexural Strength                            | ISO178           | Мра                   | 70          |
| Charpy Impact Test with Notch                | ISO179           | kJ/m²                 | 9           |
| Charpy Impact Test                           | ISO179           | kJ/m²                 | No breakage |
| Rockwell Hardness, M/R Scale                 |                  |                       | M85 / R115  |
| Ball Pressure Hardness                       | ISO2039          | Мра                   |             |
|  | OPTICAL          |                       |             |
| Light Transmission                           | ASTM D-1003      | %                     | 86 - 90     |
| Refractive Index                             | ASTM D-542       |                       | 1.57        |
|  | THERMAL          |                       |             |
| Maximum Service Temperature                  |                  | С                     | 60          |
| VICAT Softening Temperature (10N)            | ISO306           | С                     | 82          |
| VICAT Softening Temperature (50N)            | ISO306           | С                     | 75          |
| Heat Deflection Temperature, HDT A (1.8MPa)  |                  | С                     | 68          |
| Heat Deflection Temperature, HDT B (0.45MPa) | ISO 75-2         | С                     | 72          |
| Coefficient of Linear Thermal Expansion      | ISO 75-2         | x10 <sup>-5</sup> /°C | <6          |
|  | Fire Behaviour   |                       |             |
| Germany                                      | DIN 4102-1       |                       | B1          |
| UK   | BS 476 Part 7    |                       | Class 1Y    |
| France                                       | NF F16-101 & 102 |                       | M2          |

NB: All the above results are the expected values following programmed testing. Please contact our technical department for more specific information.





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