



 **PETG lite**



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

printing

thermoforming

signage



PRODUCT RANGE

THICKNESS RANGE

from 0.8mm up to 10mm

Standard Thickness

0.8mm 1mm 1.5mm 2mm 3mm 4mm
5mm 6mm 8mm 10mm

STANDARD WIDTHS ONLINE

1000mm from 0.8mm up to 6mm
1250mm from 0.8mm up to 6mm*
2050mm from 0.8mm 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.

*Available from January 1st 2008.



PHYSICAL

Density	ISO1183	g/cm ³	1.27
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MECHANICAL

Tensile Strength @ Yield	ISO527	Mpa	50
Tensile Strength @ Breakage	ISO527	Mpa	No breakage
Elongation @ Breakage	ISO527	%	>100
Elasticity Modulus in Traction	ISO527	Mpa	2200
Flexural Strength	ISO178	Mpa	70
Charpy Impact Test with Notch	ISO179	kJ/m ²	9
Charpy Impact Test	ISO179	kJ/m ²	No breakage
Rockwell Hardness, M/R Scale			M85 / R115
Ball Pressure Hardness	ISO2039	Mpa	...

OPTICAL

Light Transmission	ASTM D-1003	%	86 - 90
Refractive Index	ASTM D-542		1.57

THERMAL

Maximum Service Temperature		C	60
VICAT Softening Temperature (10N)	ISO306	C	82
VICAT Softening Temperature (50N)	ISO306	C	75
Heat Deflection Temperature, HDT A (1.8MPa)		C	68
Heat Deflection Temperature, HDT B (0.45MPa)	ISO 75-2	C	72
Coefficient of Linear Thermal Expansion	ISO 75-2	x10 ⁻⁵ /°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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The information contained in this specification sheet is for reference only and is believed to be accurate and reliable based on our product knowledge. All figures shown are approximate values taken from experimental results and should not be used in design calculations. Since many factors during practice are beyond our control, we cannot guarantee the suitability of this substrate for any particular application. Similarly, data or suggested applications must not be used in conflict with any patent or applicable laws. Specifications are subject to change without notification.