



APET lite

the choice is clear





APETlite by Foamalite is a new range of premium quality thermoplastic amorphous polyester sheets which offer an exceptional alternative to other high performing thermoplastic sheets.

APETlite sheets offer high impact resistance, good transparency and excellent chemical resistance. APETlite sheets provide an innovative solution to the constant new challenges that brand managers and designers are faced with in the sign and display sector. This material enables the realisation of products with complex shapes and objects while being cost effective.

APETlite sheets give excellent results across a wide range of varying applications within the construction, industrial and visual communication sectors. APETlite sheets are also fully approved for use in the food & beverage and medical industries.

APETlite sheets are 100% recyclable.

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FEATURES & BENEFITS

TECHNICAL

- Excellent impact strength and rigidity.
- Ultra-fast forming cycle times and good deep-draw behaviour with uniform wall thickness.
- Suitable for external use; APETlite UV 10 year limited guarantee against weathering effects.
- No sheet drying required prior to forming.
- Service temperature range, (-20C to +60C).
- Very good scratch and scuff resistance.
- Can be cold formed into bends and hinges.
- Inertness; excellent resistance to chemicals, solvents, detergents, oil and greases, etc.
- High resistance to stress cracking and crazing.
- Suitable for food contact and medical applications (except UV stabilised products).
- Suitable for gamma radiation sterilisation.

COMMERCIAL

- Cost effective; down-gauging often possible.
- Fast cycling ensures high productivity in forming operations.
- Fully recyclable.
- 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 & Poster Holders
- Display Cabinets
- Display Shelving
- Poster Covers
- Flat Signs
- Illuminated Advertising Signs
- Price Tags

INDUSTRIAL EQUIPMENT

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

SAFETY EQUIPMENT

- Screens
- Helmet Visors
- Safety Mirrors
- Police Riot Shields

hygienic

environmental

glazing



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.

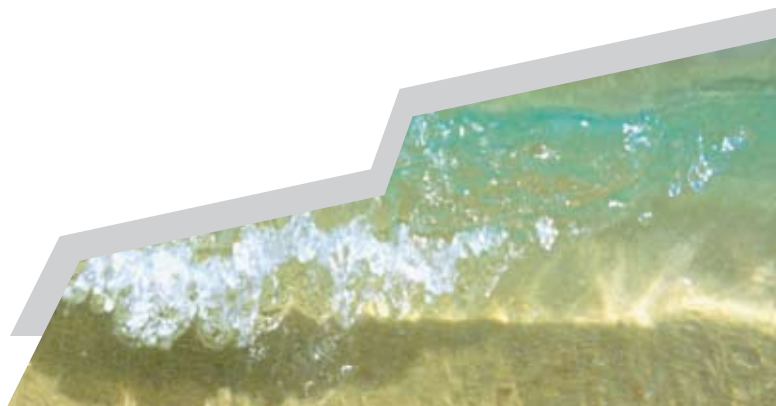
A range of opals, bronzes and colours will be available upon request.

APETlite 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	1.33
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MECHANICAL

Tensile Strength @ Yield	ISO527	Mpa	59
Tensile Strength @ Breakage	ISO527	Mpa	No breakage
Elongation @ Breakage	ISO527	%	No breakage
Elasticity Modulus in Traction	ISO527	Mpa	2420
Resistance to Flexion	ISO178	Mpa	86
Charpy Impact Test with Notch	ISO179	kJ/m ²	(*)
Charpy Impact Test	ISO179	kJ/m ²	No breakage
Rockwell Hardness, M/R Scale			(*)/111
Ball Pressure Hardness	ISO2039	Mpa	117

OPTICAL

Light Transmission	ASTM D-1003	%	89
Refractive Index	ASTM D-542		1.576

THERMAL

Maximum Service Temperature		C	60
VICAT Softening Temperature (10N)	ISO306	C	79
VICAT Softening Temperature (50N)	ISO306	C	75
Heat Deflection Temperature, HDT A (1.8MPa)		C	69
Heat Deflection Temperature, HDT B (0.45MPa)	ISO 75-2	C	73
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.

The logo for APET lite, featuring a stylized 'F' icon in grey and green, followed by the text 'APET lite' in a bold, sans-serif font. 'APET' is in green and 'lite' is in black.

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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.