

GRIPHEN™

A TRANSPARENT PETG SHEET THAT FULFILLS THE MOST DIVERSE REQUIREMENTS.

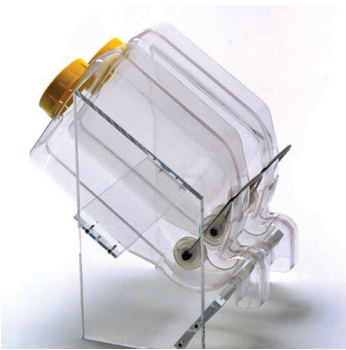
GRIPHEN™ and GRIPHEN™ COLOUR are extremely easy to fabricate and to thermoform. This combined with the high transparency and high impact strength has made GRIPHEN™ a reliable solution in many applications where A-PET, PVC, PMMA or glass traditionally has been used.

ARLA GRIPHEN™ BECAUSE...

Quality – GRIPHEN™ is known in the industry for its superior quality level. Clarity and surface quality on the GRIPHEN™ sheets is known to be the best

Solutions – Quick answers from our superior technical support; Inquiries, Technical issues & Problem solving

Trust – We care about your needs; Our commitment extends to the end customer



GRIPHEN™ is a cost effective polymer, offering faster cycle times which in turn save time, labour and money. GRIPHEN™ Colour is available in any transparent colour, with extra UV protection, and with the unique Frost look.



FOOD APPROVED

GRIPHEN™ is compatible with foodstuffs, making it an excellent choice when food approvals are necessary.



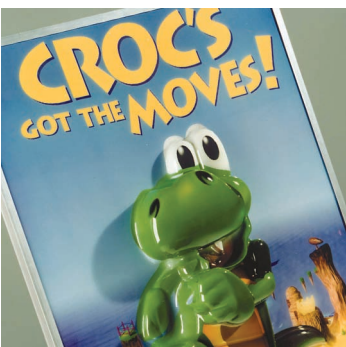
UV PROTECTION

GRIPHEN™ UV and GRIPHEN™ COLOUR UV has an extra UV protection layer, a layer which is extremely even in distribution making the appearance of the sheet excellent. Our Griphen Frost sheets also comes with an improved UV performance.



IMPACT STRENGTH AND CHEMICAL RESISTANCE

GRIPHEN™ has more than 2 times the impact strength of high impact PMMA, yet is very easy to thermoform or cold bend into complex shapes. GRIPHEN™ also has a good chemical resistance to the most common chemicals.



GRIPHEN™

APPLICATION AREAS

Indoor and outdoor signs, shelving and racking systems, food displays/bin/dividers, thermoformed covers, vending machine faces, medical equipment (packaging etc), industrial equipment (machine coverings, machine protections and many different kinds of technical parts).

ALSO AVAILABLE IN: Anti Reflex, with a Frost surface (GRIPHEN™ Frost), Transparent and Opal colours

Property	Unit	Value	Standard
Physical Properties			
Density	g/cm ³	1,27	ISO 1183
Light transmission (Light source D65, thickness 1 mm)	%	88	ASTM D1003
Refractive index		1,57	ISO 489
Moisture absorption 24 hours, 23°C, immersion	%	0,2	ISO 62
Mechanical Properties			
Tensile strength at yield	N/mm ²	53	ISO 527
Elongation at yield (at break)	%	40	ISO 527
Elastic modulus	N/mm ²	2200	ISO 527
Flexural modulus	N/mm ²	2300	ISO 178
Charpy unnotched impact strength +23°C	kJ/m ²	no break	ISO 179/2D
Izod notched impact strength +23°C	kJ/m ²	11,5	ISO 180/1A
Izod notched impact strength -30°C	kJ/m ²	4,4	ISO 180/1A
Rockwell hardness		R115	ISO 2039-2
Thermal Properties			
Linear coefficient of thermal expansion (23-80°C)	10 ⁻⁶ x K ⁻¹	51	ASTM D696
Heat deflection temperature, HDT	A (1,80 N/mm ²)	68	ISO 75
	B (0,45 N/mm ²)	72	
Thermal conductivity	W/m, K	0,19	DIN 52612
Electrical Properties			
Volume resistivity, dry	Ω x cm	10 ¹⁶	IEC 93
Surface resistivity, dry	Ω	10 ¹⁵	IEC 93
Dielectric strength, dry (1 mm)	kV/mm	30	IEC 243
Dielectric constant, dry	1 MHz	2,4	IEC 250
Dissipation factor (tan δ), dry	1 MHz	0,02	IEC 250

DELIVERY PROGRAM	GRIPHEN	GRIPHEN COLOUR	GRIPHEN UV	GRIPHEN ANTI-REFLEX
Standard size	2050x1250 (0.75-6mm) 2050x3050 (1.5-8mm)	2050x3050	2050x3050	2050x3050
Max width	1290 (0.75-1.5mm)	1400 (0.75-1.5mm)		
uncut edges	2150 (1.5-8mm)	2150 (1.5-8mm)	2150 (1.5-8mm)	2150 (1.5-8mm)
Max length	Request Arla (0.75-1mm) 4050 (1.5-8mm)	4050	4050	4050
Thickness range	0.75-8	2-8	2-6	2-5
Colours		2 basic, 6 standard colours	2 basic, 6 standard colours	Request Arla

Detailed product specification and technical manual/information is available on request.

Please note: Minimum quantities varies by the width requirements and product options. Special thicknesses and sizes are available upon request.

Please contact the local area office for more information.

Solid Sheets

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Multiwall Sheets