

# GRIPHEN®



GRIPHEN® and GRIPHEN® COLOUR are extremely easy to fabricate and to thermoform.

## A TRANSPARENT PETG SHEET THAT FULFILS 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 PLAST 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.



**Arla Plast AB**  
Opaque and Transparent sheets  
Box 33, Västanåvägen  
SE-590 30 Borensberg  
Sweden

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Fax +46 141 414 30  
E-post: [info@arlaplast.se](mailto:info@arlaplast.se)

## 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

*Please note: Minimum quantities vary by the width requirements and product options. Special thicknesses and sizes are available upon request.  
Please contact the local area office for more information.*



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Egenskap	GRIPHEN®	Enhet	Standard
<b>Mechanical Properties</b>			
Tensile Strength at Break	55	MPa	ISO 527
<b>Mechanical Properties</b>			
Elongation at yield (at break)	40	%	ISO 527
Elastic modulus	2200	MPa	ISO 527
Flexural modulus	2300	MPa	ISO 178
Charpy unnotched impact strength +23°C	NB		ISO 179
Izod notched impact strength +23°C	11,5		
Izod notched impact strength -30 °C	4,4		
Rockwell hardness	R115	R-scale	ISO 2039-2
Tensile strength at yield (at break)		MPa	ISO 527
<b>Physical Properties</b>			
Density	1,27	g/cm3	ISO 1183
Light transmission (Light source D65, thickness 2 mm)	88	%	ASTM D1003
Refractive index	1,57		ISO 489
Moisture absorption 24 hours, 23°C, 50% RH	0,2	%	ISO 62
<b>Thermal Properties</b>			
Heat deflection temperature, HDT A (1,8 N/mm2)	68	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm2)	72	°C	ISO 75
Thermal conductivity	0,19	W/m.K	DIN 52612
Linear coefficient of thermal expansion (23-80°C)	51	10 <sup>-4</sup> x K <sup>-1</sup>	ISO 2039-2
<b>Electrical Properties</b>			
Volume resistivity, dry	10 <sup>16</sup>	? x cm	IEC 60093
Surface resistivity, dry	10 <sup>15</sup>	?	IEC 60093
Dielectric strength, dry 1 mm	30	kV/mm	IEC 60243
Dielectric constant, dry 1 MHz	2,4		IEC 60250
Dissipation factor (tan δ), dry 1 MHz	0,02		IEC 60250



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## Delivery Program

Colours

GRIPHEN COLOUR 2 basic, 6 standard

Properties reported here are typical values. Arla Plast makes no representation that the material in any particular shipment will conform exactly to the values give. The above information is based upon experience and given in good faith. Due to many factors which are outside our knowledge and control, no warranty is given or is to be implied with respect to such information. Detailed product specification and technical manual/information is available on request. Please note: Minimum quantities vary by the width requirements and product options. Special thicknesses and sizes are available upon request. Please contact the local area office for more information.

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