



GRIPHEN[®] FROST

GRIPHEN[®] FROST is high impact transparent sheet with frosty look on each side. The product is easy to fabricate and thermoform without pre-drying offering faster cycle times hence cost saving. The product offers high definition on thermoforming. The product can be used in point of sale and point of purchase applications.

GRIPHEN[®] FROST retains frosty look after thermoforming. GRIPHEN[®] FROST also offers excellent colour range.

ALSO AVAILABLE:

GRIPHEN[®] UV, (UV protected), GRIPHEN[®] COLOUR (transparent and opal colours), GRIPHEN[®] COLOUR UV (transparent colours with UV protection)

GRIPHEN[®] FROST BENEFITS:

- Unique frosty look
- Easy to thermoform or fabricate
- Cost effective - no pre-drying required when thermoforming
- More than 2 times the impact strength of high impact PMMA

APPLICATION AREAS:

Solutions in interior design, displays, indoor illuminated signs, showcases applications and exclusive design accessories.

DELIVERY PROGRAM:

Standard size: 1250 x 2050 mm, 2050 x 3050 mm

Thickness range: 2 – 8 mm

Colour: Clear and FROST colours

GRIPHEN® FROST TECHNICAL SPECIFICATIONS

Property	Value	Unit	Standard
Physical properties			
Density	1,27	g/cm ³	ISO 1183
Refractive index (20 °C)	1,57		ISO 489
Moisture absorption 24 hours, 23 °C, 50% RH	0,2	%	ISO 62
Mechanical properties			
Tensile strength at break	55	MPa	ISO 527
Elongation at yield (at break)	40	%	ISO 527
Elastic modulus	2200	N/mm ²	ISO 527
Flexural modulus	2300	N/mm ²	ISO 178
Charpy unnotched impact strength +23 °C	NB	kJ/m ²	ISO 179/1eU
Izod notched impact strength +23 °C	11,5	kJ/m ²	ISO 180/1A
Izod notched impact strength -30 °C	4,4	kJ/m ²	ISO 180/A
Rockwell hardness	R115	R-scale	ISO 2039-2
Tensile strength at yield (at break)		N/mm ²	ISO 527
Thermal properties			
Linear coefficient of thermal expansion (23-70 °C)	51x10 ⁻⁴	K ⁻¹	ISO 11359-2
Heat deflection temperature, HDT A (1,80 N/mm ²)	68	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm ²)	72	°C	ISO 75
Thermal conductivity	0,19	W/m.K	DIN 8302
Electrical properties			
Volume resistivity, dry	10 ¹⁶	Ω x cm	IEC 60093
Surface resistivity, dry	10 ¹⁵	Ω	IEC 60093
Dielectric strength, dry	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

Properties reported here are typical values. Arla Plast makes no representation that the material in any particular shipment will conform exactly to the values given. 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.