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

Version 2014-08-20

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

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