ASTERITE® Ice
Technical Data Sheet

General
ASTERITE® Ice is a cross-linked cell cast acrylic sheet and is available in 2 variants, one with a matt showface and one with a gloss showface; both of these variants have matt backfaces.

The surface finish of ASTERITE® Ice sheet is produced during the casting of the sheet and is not post applied.

Handling
ASTERITE® Ice gloss showface sheets are delivered on pallets with the gloss face down.

Masking
ASTERITE® Ice sheets are supplied with a polyethylene protective film on both sides. The masking on the gloss face of the gloss showface variant is shape-in-place capable.

The masking on all matt faces is not suitable for shape-in place forming, but it can be left in place to provide protection during simple fabrication operations such as cutting, drilling or line bending.

Handling
Because the composition of ASTERITE® Ice is similar to that of standard ASTERITE® Acrylic Sheet, similar thermoforming conditions can be used when moulding ASTERITE® Ice sheet. Only at extreme levels of thermoforming draw ratio is there a subtle change in the translucency of the finished product; the thinner the Ice the more light is allowed through.

Good quality metal moulds should be used to avoid marking off on the matt surface.

Good vacuum strength and adequate clamping depth will be required to mould 8 mm and 10 mm sheet.

Designs should avoid sharp internal radii and corners whose details will be difficult to replicate with 8 mm and 10 mm sheet.

Fabrication
During fabrication work, the use of solvent adhesives on the matt faces will not give good bonding characteristics.

Guidelines for Cleaning and Care
ASTERITE® Ice is a transparent acrylic product and therefore any scratches or marks will be more visible than on a solid colour.

Scratches will not affect the structural integrity, fitness for purpose or safety of a unit made using ASTERITE® Ice, but will detract from its visual appearance.

Cleaning
Always use a non-abrasive cloth.

Warm soapy water should be the first choice for cleaning ASTERITE® Ice.

Bleaches can be used to remove more stubborn stains or dirt. ASTERITE® Ice is resistant to most lime de-scaling products.

Repair (of the Gloss Showface Only)
Light scratches can be removed by polishing out with ordinary household metal polish and a soft cloth. Acrylic bath repair kits can also be used.

To refresh the high reflective shine of a unit made from ASTERITE® Ice, clean with ordinary household polish and a soft cloth.

In Use (for Final Consumer)

Avoid scraping the surface with hard objects such as rings, jewellery, glass perfume bottles, or anything with sharp corners.

Avoid spillage of nail-varnish and nail-varnish remover, acetone, paint & paint stripper, stain remover or any other solvent-containing product. Accidental spillage of perfume or shaving lotion should not damage the material, but should nevertheless be cleaned up and rinsed away immediately. Ensure that wet product does not remain in contact with the ASTERITE® Acrylic Sheet surface for long periods e.g. trapped under a bottle standing on a countertop surface or basin edge.

External Specifications

ASTERITE® Ice complies with ISO 7823-1 and EN 263.
ASTERITE® Ice is approved by the French AFNOR "NF" quality mark.
Perspex International Ltd is registered to ISO 9001 and ISO 14001.

Table of Properties

Values quoted for properties of ASTERITE® Ice are the results of tests carried out on representative samples and do not constitute a specification.

Property	Test Method	Unit	Value
General			
Density	ISO 1183/A	g cm^{-3}	1.2
Water Absorption	ISO 62/1 (50mm^2 Sample)	mg	29
Colour Fastness - UV	ISO 4892-2	Grey Scale	5
Colour Fastness - Hot Water	EN263	Grey Scale	5
Thermal Properties			
Vicat Softening Point	BS2782 : 120 C	°C	110
Shaping Temperature (Optimum)		°C	150 - 170
Coefficient of Thermal Expansion - Linear	Din 5372 (0-50°C)	Mm K^{-1}	7.7 x 10^{-5}
Mechanical Properties			
Tensile Strength	ISO R527 (5 mm/min)	MPa	> 70
Tensile Modulus	ISO R527 (5 mm/min)	MPa	3200