

## **ASTERITE<sup>®</sup> Starlight** **Technical Data Sheet**

### **General**

ASTERITE<sup>®</sup> Starlight is a cross-linked acrylic sheet and is available in a double-sided satin finish with "scattered" metallic pigments from one side. The sparkle effect in ASTERITE<sup>®</sup> Starlight is made with special particles that align in the sheet to give the effect of shining stars.

### **Masking**

The frosted surface of ASTERITE<sup>®</sup> Starlight cast acrylic sheet is protected by a non-thermoformable grade of masking.

### **Thermoforming**

The pigmentation used in ASTERITE<sup>®</sup> Starlight is relatively large compared to standard products and thus additional care may be required during thermoforming. The recommended forming temperature is in the range 150-170°C and ovens should be run 10-15°C above this. Evacuation of the mould should be done at a moderate and steady speed.

### **Reinforcement**

ASTERITE<sup>®</sup> Starlight sheet can be reinforced with the same resins used for standard ASTERITE<sup>®</sup> Acrylic Sheet but we would recommend careful control of the resin : glass ratio between 2 and 2.5 : 1 and that the laminate is well consolidated by firm rolling. Should adhesion problems be encountered then some abrasion of the surface may be necessary prior to reinforcement, but in our experience this is rarely needed.

### **External Specifications**

ASTERITE<sup>®</sup> Starlight complies with ISO 7823-1 and EN 263.

ASTERITE<sup>®</sup> Acrylic Sheet 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<sup>®</sup> Starlight are the results of tests on representative samples and do not constitute a specification.

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Property	Test Method	Unit	Value
<b>General</b>			
Density	ISO 1183/A	g cm <sup>3</sup>	1.2
Water Absorption	ISO 62/1 (50mm <sup>2</sup> Sample)	mg	26
UV Resistance		Grey Scale	5
Colour Fastness		Grey Scale	5
<b>Thermal Properties</b>			
Vicat Softening Point	BS2782 : 120 C	°C	105
Shaping Temperature (Optimum)		°C	150 - 170
Coefficient of Thermal Expansion - Linear	DIN 5372 (0-50 °C)	Mm K <sup>-1</sup>	7.7 x 10 <sup>-5</sup>
<b>Mechanical Properties</b>			
Tensile Strength	ISO R527 (5 mm/min)	MPa	> 70
Tensile Modulus	ISO R527 (5mm/min)	MPa	3100

**ASTERITE® Acrylic Sheet**

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