



# Perspex® Frost

## Technical Data Sheet

### 1. Introduction

The properties of Perspex® Frost sheet are identical to normal Perspex® cast acrylic sheet. The surface finish of Perspex® Frost sheet is produced during the casting of the sheet and is not post applied. The matt surface is found on both sides of the product.

### 2. Masking

Perspex® Frost sheet is supplied with double-sided, non-thermoformable masking.

The masking 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 or drilling before the sheet is thermoformed.

### 3. Fabrication Details

Most fabrication techniques (e.g. cutting and routing) may be used with this product. However, the following should be considered when working with Perspex® Frost sheet:

#### Thermoforming

Because the composition of Perspex® Frost is similar to that of standard Perspex®, similar thermoforming conditions can be used when moulding Perspex® Frost sheet.

Sheet temperatures during forming are recommended in the range 150–170°C. In highly-stretched areas, such as corners with small radii, the surface of the sheet may appear slightly less matt than less stretched areas.

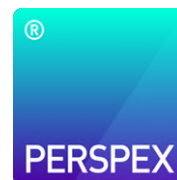
#### Cementing

When gluing the matt surface of a sheet then the use of a polymerisation or gap-filling cement such as Tensol® 70 is recommended.

### 4. Cleaning

Always use a non-abrasive cloth.

Warm soapy water should be the first choice for cleaning Perspex® Frost.



## 5. Table of Properties

Values quoted for the properties of Perspex® Frost sheet are the results of tests on representative samples and do not constitute specifications.

Property	Test Method	Unit	Value
<b>General</b>			
Density	ISO 1183	g cm <sup>-3</sup>	1.19
Rockwell Hardness	ISO 2039-2	M scale	102
Water Absorption	ISO 62	%	0.2
Flammability	BS 476 Part 7	Class	3
	DIN 4102	-	B2
	NFP 92-507	-	M4
	UL94	-	HB
	ISO 11925-2	-	E
<b>Thermal Properties</b>			
Vicat Softening Point	ISO 306 A	°C	> 110
Coefficient of Thermal Expansion (Linear)	ASTM D696	x 10 <sup>-5</sup> . K <sup>-1</sup>	7.7
<b>Mechanical Properties</b>			
Tensile Strength	ISO 527 (5 mm/min)	MPa	75
Elongation at Break	ISO 527 (5 mm/min)	%	4
Flexural Strength	ISO 178 (2 mm/min)	MPa	116
Flexural Modulus	ISO 178 (2 mm/min)	MPa	3210
Impact Strength – Charpy (unnotched)	ISO 179	kJ M <sup>-2</sup>	12
<b>Electrical Properties</b>			
Surface Resistivity	IEC 93	Ω.m-2	> 10 <sup>14</sup>
Electrical Strength	IEC 243	kV.mm-1	15

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### Perspex® Frost Acrylic Sheet

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