

# Perspex® Cell Cast Acrylic

## Technical Data Sheet

### 1. Range

Perspex® cell cast acrylic sheet is available in clear, opal and many colours in a range of thicknesses, sizes and special grades.

### 2. Masking

Perspex® sheet is supplied with double-sided, non-thermoformable masking. The showface masking is printed with the Perspex® logo.

### 3. Table of Properties

Values quoted for the properties of Perspex® cast 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>Optical Properties</b>			
Light Transmission	ASTM D1003	% (3 mm)	> 92
Refractive Index	ISO 489 A	-	1.49
<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
Poisson's Ratio	ISO 179	kJ M <sup>-2</sup>	0.38
<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® Cast Acrylic Sheet

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