

Perspex® from Lucite® Technical Data Sheet

Table of Properties

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

Property	Test Method	Units	GS CAST	GS IM CAST
General Properties				
Relative Density	ISO 1183	-	1.19	1.18
Rockwell Hardness	ISO 2039-2	M scale	102	98.5
Water Absorption	ISO 62	%	0.2	0.4
Flammability	BS 476 Pt 7	Class	3	3
	DIN 4102	-	B2	B2
	NFP 92-507	-	M4	-
	UL94	-	HB	HB
	ISO 11925-2	-	E	-
Mechanical Properties				
Tensile strength (5 mm/min)	ISO 527	MPa	75	62
Elongation at Break (5 mm/min)	ISO 527	%	4	-
Flexural Strength (2 mm/min)	ISO 178	MPa	116	105
Flexural Modulus (2 mm/min)	ISO 178	MPa	3210	2960
Impact Strength – Charpy (unnotched)	ISO 179	kJ.m ⁻²	12	21.7
	ISO 179	kJ.m ⁻²	-	1.2
Izod Impact Strength	ISO 180/1A	kJ.m ⁻²	-	-

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Property	Test Method	Units	GS CAST	GS IM CAST
Thermal Properties				
Vicat Softening Point	ISO 306 A	°C	> 110	> 110
Coefficient of Thermal Expansion - Linear	ASTM D696	$\times 10^{-5} \cdot K^{-1}$	7.7	-
Optical Properties				
Light Transmission	ASTM D1003	% (0 mm)	> 92	> 92
Refractive Index	ISO 489 A		1.49	-
Electrical Properties				
Surface Resistivity	IEC 93	$\Omega \cdot m^{-2}$	$> 10^{14}$	-
Electrical Strength	IEC 243	$kV \cdot mm^{-1}$	15	-

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