

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	0x00	IMPACT MODIFIED	
				IM50	IM60
General Properties					
Relative Density	ISO 1183	-	1.19	1.17	1.16
Rockwell Hardness	ISO 2039-2	M scale	101	65	45
Water Absorption	ISO 62	%	0.2	0.3	0.3
Flammability	DIN 4102	-	B2	B2	B2
	UL94	-	HB	HB	HB
	BS 476 Part 7	Class	4	-	-
	NFP 92-507		M4		
	ISO 11925-2	-	E	-	-
Mechanical Properties					
Tensile strength (5 mm/min)	ISO 527	MPa	70	68	50
Elongation at Break (5 mm/min)	ISO 527	%	4	18	25
Flexural Strength (2 mm/min)	ISO 178	MPa	107	90	70
Flexural Modulus (2 mm/min)	ISO 178	MPa	3030	2500	2000
Charpy Impact Strength (unnotched)	ISO 179	kJ.m^{-2}	10	50	65
	ISO 179	kJ.m^{-2}	-	5	7
Izod Impact Strength	ISO 180/1A	kJ.m^{-2}	-	5	7

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Thermal Properties					
Vicat Softening Point	ISO 306 A	°C	> 105	> 105	> 105
Coefficient of Thermal Expansion	ASTM D696	$\times 10^{-5} \cdot K^{-1}$	7.8	-	-
Optical Properties					
Light Transmission	ASTM D1003	% (3 mm)	> 92	90	89
Refractive Index	ISO 489 A	-	1.49	-	-
Electrical Properties					
Surface Resistivity	IEC 93	$\Omega \cdot m^{-2}$	$> 10^{14}$	-	-
Electrical Strength	IEC 243	$kV \cdot mm^{-1}$	-	-	-

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