



Perspex® Extruded Acrylic (XT)

Technical Data Sheet

Table of Properties

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

Property	Test Method	Units	0X00	IM50	IM60
General Properties					
Relative Density	ISO 1183	g cm ⁻³	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	BS 476 Part 7	Class	4	-	-
	DIN 4102	-	B2	B2	B2
	NFP 92-507	-	M4	-	-
	UL94	-	HB	HB	HB
	ISO 11925-2	-	E	-	-
Optical Properties					
Light Transmission	ASTM D1003	% (3 mm)	> 92	90	89
Refractive Index	ISO 489 A	-	1.49	-	-
Thermal Properties					
Vicat Softening Point	ISO 306 A	°C	> 105	> 105	> 105
Coefficient of Thermal Expansion	ASTM D696	x 10 ⁻⁵ . K ⁻¹	7.8	-	-
Mechanical Properties					
Tensile strength	ISO 527 (5 mm/min)	MPa	70	68	50
Elongation at Break	ISO 527 (5 mm/min)	%	4	18	25
Flexural strength	ISO 178 (2 mm/min)	MPa	107	90	70
Flexural Modulus	ISO 178 (2 mm/min)	MPa	3030	2500	2000
Impact Strength – Charpy (unnotched)	ISO 179	kJ M ⁻²	10	50	65
Izod Impact Strength	ISO 180/1A	kJ M ⁻²	-	5	7
Electrical Properties					
Surface Resistivity	IEC 93	Ω.m ⁻²	> 10 ¹⁴	-	-
Electrical Strength	IEC 243	kV.mm ⁻¹	-	-	-

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