

TYPICAL PHYSICAL PROPERTIES

Extruded Acrylic Sheet

Property	Test Method	Conditions	Units	Value	
Physical				Extruded	IM30
Relative Density	ISO 1183		g/cm ³	1.19	1.19
Water Absorption	ISO 62		%	0.2	0.3
Mechanical					
Tensile Strength at Yield	ISO 527	5mm/min	MPa	70	60
Tensile Strength at Break					
Elongation at Yield					
Elongation at Break	ISO 527	5mm/min	%	4	12
Tensile Modulus of Elasticity					
Flexural Modulus	ISO 178	2mm/min	MPa	3030	2250
Flexural Strength at Yield	ISO 178	2mm/min	MPa	107	
Izod Impact Strength	ISO 180/1A	notched	kJm-2	N/A	4
Charpy Impact Strength	ISO 179	unnotched	kJm-2	10	48
	ISO 179	notched	kJm-2	N/A	4.8
Impact Falling Weight					
Rockwell Hardness	ISO 2039-2		M Scale	101	77
Thermal					
Service Temperature			°C	-40 to 80	
Heat Distortion Temperature					
Vicat Softening Temperature	ISO 306		°C	>105	>102
Coefficient of Thermal Expansion	ASTM D-696		mm/m°C	0.078	N/A
Thermal Conductivity					
Specific Heat Capacity					
Optical					
Light Transmission	ASTM D-1003	3mm sheet	%	>92	92
Refractive Index	ISO 489/A			1.49	N/A
Yellowness Index					
Haze					
Electrical					
Dielectric Strength	IEC 243		kV/mm-1	N/A	N/A
Surface Resistivity	IEC 93		Ω m-2	>10 ¹⁴	

Other physical properties and values available on request.

Flammability

Standard	Classification
BS 476 Part 7	Class 4
UL 94	HB
NFP 92-307	M4 (without drips)

Acrylic is a combustible material and if ignited will continue to burn. Different to cast, extruded acrylic will eventually produce molten droplets which will continue to burn.