

# POLYCASA® AKRYLON XT

Polymethyl Methacrylate Acrylic  
Polycasa

Message:

Akrylon XT is one of the trade names of Polycasa for extruded acrylic (polymethylmethacrylate PMMA) in the form of large dimensional sheets. The material is thermoplastic and suitable for forming, bending or direct use in the form of cut-to-size panels.

CHARACTERISTICS

- Good optical properties — brilliant transparency showing excellent colour.
- High-quality surfaces — very good weathering and ageing resistance.
- High surface stability/resistance — backed up with a ten year guarantee.
- Can be used in contact with foodstuffs.
- Good recyclability.

APPLICATIONS

- Construction components: light domes, partition walls, glazing, roofing, caravan windows.
- Lighting: coloured and opal diffusers.
- Engineering components: housings, machine covers.
- Advertising and decoration: letters, shop fittings, panels, Point Of Purchase displays.
- Highway construction: sound barrier walls.
- Other applications: containers, lettering templates, solariums UVT (UV-transmitting grade).

General Information			
Features	Excellent appearance		
	Optical		
	Recyclable materials		
	Good weather resistance		
	Compliance of Food Exposure		
Uses	Protective cover		
	Engineering application		
	Building materials		
	Architectural application field		
	Doors and Windows		
	Accessories		
	Wallboard		
	Shell		
Appearance	White		
	Opacity		
	Available colors		
	Clear/transparent		
Forms	Sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm <sup>3</sup>	ISO 1183

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	175	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress (Break)	70.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Stress	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	17	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	95.0	°C	ISO 75-2/A
Vicat Softening Temperature	105	°C	ISO 306/B50
CLTE - Flow	7.0E-5	cm/cm/°C	DIN 53752
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+15 - 3.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+15 - 5.0E+15	ohms·cm	IEC 60093
Dielectric Strength	10	kV/mm	IEC 60243-1
Dielectric Constant			
--	30.0		DIN 53481
50 Hz	2.70		DIN 53483
1 kHz	3.10		DIN 53483
1 MHz	2.70		DIN 53483
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	93.0	%	ISO 13468
Haze <sup>1</sup>	0.60	%	ISO 14782
Refractive Index	1.4920		ISO 489
Degradation Temperature	> 280	°C	
Additional Information	Nominal Value	Unit	
Combustibility grade: E			
NOTE			
1.	AKRYLON XT clear		

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