

Polycasa AKRYLON XT PMMA

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

AKRYLON XT sheets have good optical properties and high quality surfaces. AKRYLON XT sheets also show excellent color and functional stability and can be used in contact with foodstuffs. AKRYLON XT sheets also combine the following excellent properties: brilliant transparency, very good weathering and ageing resistance, high surface stability/resistance, and good recyclability. Construction components Light domes Partition walls Glazing Roofing Windows for caravans Lighting Prismatic control lenses Opal diffusers Engineering components Housings Machine Covers Advertising and Decorations Letters Decorations Shop fittings Advertising panels Point of Purchase Displays Quinn Manufacturing Group rebranded its Plastics Division as Polycasa in 2013.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polycasa-AKRYLON-XT-PMMA.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	175 MPa	25400 psi	ISO 2039-1
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527-2
Elongation at Break	4.0 %	4.0 %	ISO 527-2
Tensile Modulus	3.20 GPa	464 ksi	ISO 527-2
Flexural Strength	115 MPa	16700 psi	ISO 178
Charpy Impact Unnotched	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 μm/m-°C	38.9 μin/in-°F	DIN 53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75
Vicat Softening Point	105 °C	221 °F	ISO 306
Decomposition Temperature	>= 280 °C	>= 536 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.492	1.492	ISO 489

Optical Properties	Metric	English	Comments <small>KT clear; ISO 14782</small>
Transmission, Visible	93 % @Thickness 3.00 mm	93 % @Thickness 0.118 in	ISO 1183

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 - 5.00e+15 ohm-cm	1.00e+15 - 5.00e+15 ohm-cm	IEC 60093
Surface Resistance	3.00e+15 - 3.00e+16 ohm	3.00e+15 - 3.00e+16 ohm	IEC 60093
Dielectric Constant	2.7 @Frequency 1e+6 Hz	2.7 @Frequency 1e+6 Hz	
	2.7 @Frequency 50 Hz	2.7 @Frequency 50 Hz	
Dielectric Strength	30.0 kV/mm @Thickness 1.00 mm	762 kV/in @Thickness 0.0394 in	DIN 53481

Descriptive Properties	Value	Comments
Combustibility Grade	E	EN 13501-1
Electrical Strength, kV/mm ²	10	IEC 60243-1

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