Polycasa XT 620 PMMA

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

QUINN XT sheets have good optical properties and a brilliant surface. QUINN XT sheets offer excellent transparency, good mechanical properties, are UV resistant, have very good weathering and ageing resistance and remain color constant for years. High impact grades, QUINN XT610, XT620, XT630, have outstanding mechanical properties and excellent impact strength. Both QUINN XT sheets and all high impact grades can be used in contact with foodstuffs, as they meet all current European food control legislation. QUINN XT sheets and the high impact grades do not contain any toxic materials or heavy metals, which may cause environmental damage or health risks. It is insoluble in water, and not subject to hazardous materials identification. QUINN XT sheets and the high impact grades are easy to recycle.Construction Components Light domes Partition walls Door Glazing Roofing Skylights for caravans Lighting Lighting control lensesDomestic light fittings Engineering ComponentsMachine housings, machine safety covers Advertising and SignageMolded lettersStore displaysShop fittingsIlluminated graphics panels Other ApplicationsContainersLettering TemplatesSolariumsSound Barrier WallsQuinn Manufacturing Group rebranded its Plastics Division as Polycasa in 2013.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Polycasa-XT-620-PMMA.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in³	ISO 1183
Water Absorption	0.30 %	0.30 %	24h/23°C - 50x50x4mm; DIN 53495 Method 1
Linear Mold Shrinkage	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	135 MPa	19600 psi	ISO 2039-1
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527-2
Elongation at Break	25 %	25 %	ISO 527-2
Tensile Modulus	2.10 GPa	305 ksi	ISO 527-2
Flexural Strength	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	ISO 178
Charpy Impact Unnotched	3.50 J/cm²	16.7 ft-lb/in²	ISO 179-1
Charpy Impact, Notched	0.400 J/cm²	1.90 ft-lb/in²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	DIN 53752

Thermal Properties	Metric @Temperature 20.0 °C	English @Temperature 68.0 °F	Comments
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	IEC 1006
Thermal Conductivity	0.180 W/m-K	1.25 BTU-in/hr-ft²-°F	DIN 52612
Maximum Service Temperature, Air	65.0 °C	149 °F	Continuous Use
	80.0 °C	176 °F	Short Term Use
Vicat Softening Point	102 °C	216 °F	ISO 306
Decomposition Temperature	>= 280 °C	>= 536 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.492	1.492	DIN 5036-3
Transmission, Visible	91 % @Thickness 3.00 mm	91 % @Thickness 0.118 in	DIN 5036-3

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.9 @Frequency 1e+6 Hz	2.9 @Frequency 1e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	DIN 53481
Dissipation Factor	0.030 @Frequency 1e+6 Hz	0.030 @Frequency 1e+6 Hz	DIN 53483-2

Descriptive Properties	Value	Comments
Forming Temperature, Air Pressure, °C	130-150	
Forming Temperature, Vacuum, °C	140-170	

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