

Polycasa COPOL PETG

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

QUINN COPOL has good optical properties, brilliant surface, easy to vacuum form without pre-drying, low water absorption, very good chemical resistance, and high impact properties. Bus shelters (UV-version) Poster glazing Machine guards Medical appliance packaging Displays Refrigerators and cold storeroom equipment Lenticular lenses / Graphic Arts Lighting controllers for hazardous areas Quinn Manufacturing Group rebranded its Plastics Division as Polycasa in 2013.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polycasa-COPOL-PETG.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ISO 527-2
Elongation at Break	14 %	14 %	ISO 527-2
Tensile Modulus	2.40 GPa	348 ksi	ISO 527-2
Flexural Strength	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	2.35 GPa	341 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179-1
Charpy Impact, Notched	0.153 J/cm ²	0.728 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	59.0 µm/m-°C	32.8 µin/in-°F	DIN 53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.162 W/m-K	1.12 BTU-in/hr-ft ² -°F	DIN 52612
Maximum Service Temperature, Air	69.0 °C	156 °F	
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	64.0 °C	147 °F	ISO 75-2
Vicat Softening Point	78.0 °C	172 °F	ISO 306
Decomposition Temperature	>= 280 °C	>= 536 °F	

Optical Properties	Metric	English	Comments
Haze	<= 1.1 %	<= 1.1 %	
Transmission, Visible	87 %	87 %	DIN 5036-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.05e+14 ohm-cm	6.05e+14 ohm-cm	IEC 93
Surface Resistance	6.62e+14 ohm	6.62e+14 ohm	IEC 93
Dielectric Constant	3.3	3.3	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	10.7 kV/mm	272 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 250
	@Frequency 50 Hz	@Frequency 50 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	120 - 160 °C	248 - 320 °F	Sheet Forming

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