

Polycasa PETG

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

Material Notes:

QUINN PETG has good optical properties and a brilliant surface. The PETG range of sheets are easy to fabricate, to vacuum form, and show exceptional low temperature performance. Important benefits of QUINN PETG are its very good chemical resistance and very high impact properties. QUINN PETG meets all current food contact legislation and can be used in contact with unwrapped food. QUINN PETG also combines the following excellent properties: easy to vacuum form, needs no predrying, exceptional low temperature performance, low water absorption, ease to recycle, and very high impact properties

Bus shelters
Poster glazing
Machine guards
Medical appliance packaging
Displays & signs for external use
Refrigerators and cold storeroom equipment
Bicycle safety helmets
Food containers
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-PETG.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D1595

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	50.0 MPa	7250 psi	DIN 53455
Elongation at Break	54 %	54 %	DIN 53466
Tensile Modulus	2.20 GPa	319 ksi	DIN 53455
Flexural Strength	70.0 MPa	10200 psi	DIN 53452
Flexural Modulus	2.075 GPa	301.0 ksi	DIN 53452
Izod Impact, Notched (ISO)	11.5 kJ/m ²	5.47 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	NB	NB	DIN 53453
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	DIN 53453

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 µm/m-°C	37.8 µin/in-°F	DIN 53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	ASTM D2766
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	DIN 52612
Maximum Service Temperature, Air	70.0 °C	158 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	DIN 53460
Vicat Softening Point	>= 280 °C	>= 536 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	DIN 53491
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	88 %	88 %	DIN 5036-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ASTM D257
Dielectric Constant	2.6	2.6	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	D149
Dissipation Factor	0.010	0.010	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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