

Polycasa LENTICULAR PETG

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

Material Notes:

Good ink adhesion Good receptability Stable sheet dimensions High impact strength Good chemical resistance Environmentally safe Recyclable Meets current food contact legislation Displays Graphic Arts Advertising Packaging Invitations Business cards Covers for CD, Video, books Toys Promotional gifts Book marks Post cards Mouse pads Puzzles Buttons Light switch plates Wrist bands Masks Stickers Quinn Manufacturing Group rebranded its Plastics Division as Polycasa in 2013.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527-2
Elongation at Break	54 %	54 %	ISO 527-2
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-2
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	2.075 GPa	301.0 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179-1

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	IES 1006
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	
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	ISO 75-2

Vicat Softening Point Thermal Properties	82.0 °C Metric	180 °F English	ISO 306 Comments
Decomposition Temperature	>= 280 °C	>= 536 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	ISO 489
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Transmission, Visible	88 %	88 %	DIN 5036

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	2.6 @Frequency 1000 Hz	2.6 @Frequency 1000 Hz	IEC 250
Dielectric Strength	10.7 kV/mm	272 kV/in	IEC 60243-1
Dissipation Factor	0.010 @Frequency 50 Hz	0.010 @Frequency 50 Hz	IEC 250

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

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