

IPB Bicell® Cellular Polypropylene Sheet

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Sheet/Thermoforming Grade

Material Notes:

Extruded, layered PP sheet, with a cellular core layer. Attributes include: Enhanced strength/thickness ratio Omni-directional flexural stress resistance High compression strength Wide variety of finishes Recyclable Food approved Resistant to water and humidity Good resistance to grease, oils and most chemicals Sterilizable Uses include packaging, including food, and displays. Property data reported here is based on PP raw material - not the formed sheet structure. Information provided by IPB Plastic Sheet Extrusion.

Order this product through the following link:

http://www.lookpolymers.com/polymer_IPB-Bicell-Cellular-Polypropylene-Sheet.php

Physical Properties	Metric	English	Comments
Density	0.907 g/cc	0.0328 lb/in ³	ISO 1183
Water Absorption	0.02 %	0.02 %	ISO 62

Thermal Properties	Metric	English	Comments
CTE, linear	180 $\mu\text{m/m-}^{\circ}\text{C}$	100 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
Specific Heat Capacity	1.68 J/g- $^{\circ}\text{C}$	0.402 BTU/lb- $^{\circ}\text{F}$	DSC
Deflection Temperature at 0.46 MPa (66 psi)	78.0 $^{\circ}\text{C}$	172 $^{\circ}\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	52.0 $^{\circ}\text{C}$	126 $^{\circ}\text{F}$	ISO 75
Vicat Softening Point	78.0 $^{\circ}\text{C}$	172 $^{\circ}\text{F}$	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	148 $^{\circ}\text{C}$	298 $^{\circ}\text{F}$	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257
Dielectric Constant	2.25	2.25	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	70.0 kV/mm	1780 kV/in	ASTM D149
Dissipation Factor	≤ 0.000500	≤ 0.000500	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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