

Plaskolite Duraplex® 100% I Impact Modified Acrylic Sheet

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified Sheet

Material Notes:

Continuously processed acrylic sheet. Data provided by the manufacturer, Plaskolite, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-Duraplex-100-I-Impact-Modified-Acrylic-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	46	46	Method A; ASTM D785
Tensile Strength, Yield	39.0 MPa	5660 psi	ASTM D638
Tensile Modulus	1.70 GPa	247 ksi	ASTM D638
Flexural Yield Strength	57.0 MPa	8270 psi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
	0.500 J/cm @Temperature -18.0 °C	0.937 ft-lb/in @Temperature -0.400 °F	ASTM D256
Gardner Impact	8.50 J	6.27 ft-lb	J; ASTM D3029-GB, unpainted

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C @Temperature -18.0 - 38.0 °C	50.0 µin/in-°F @Temperature -0.400 - 100 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	annealed; ASTM D648

Optical Properties	Metric	English	Comments
Haze	<= 3.0 %	<= 3.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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