

Plaskolite Duraplex® SG-05 Sign Grade Acrylic Sheet, Impact Modified

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Optical Sheet

Material Notes:

Available in unlimited lengths - no seams in finished products.Data provided by the manufacturer, Plaskolite, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-Duraplex-SG-05-Sign-Grade-Acrylic-Sheet-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 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	68	68	Method A; ASTM D785
Tensile Strength, Yield	55.0 MPa	7980 psi	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
Flexural Yield Strength	83.0 MPa	12000 psi	ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	0.200 J/cm @Temperature -18.0 °C	0.375 ft-lb/in @Temperature -0.400 °F	ASTM D256
Gardner Impact	3.70 J	2.73 ft-lb	reported as J/cm; ASTM D3029-GB, unpainted

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 μm/m-°C @Temperature -18.0 - 38.0 °C	40.0 μin/in-°F @Temperature -0.400 - 100 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	annealed; ASTM D648

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
Transmission, Visible	92 %	92 %	ASTM D1003

Processing Properties	Metric	English	Comments
Processing Temperature	157 °C	315 °F	Optimal Thermoforming temperature for sheet 0.25-1.0 cm (0.10-0.39 in)

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