

Material Information Sheet

Material Description: ColorCast Acrylics™

Specifications	
Material:	Cell Cast Acrylic
Finish:	Matte Gloss
Sheet Size:	24"x 48 3/4" (610 x 1238 mm)
Thickness: 2-Ply	1/8" (3.2mm) 1/4" (6.4mm)
Usage:	Architectural Signage Corporate Awards
Engraving Method:	Laser

Physical Properties	Typical Values	ASTM Method
<u>Flexural Strength</u>		
Load to stretch outer surface 5%	1050kg/cm squared	D-790
<u>Electrical – Arc Resistance</u>	10 ¹² Ohms/Sq. Meter	D-495
<u>Rockwell Hardness</u>	M45	D-785
<u>Specific Gravity</u>	1.19 – 1.20	D-792
<u>Deflection Temperature</u>		
Temperature at which material deflects .010" (.254mm) at 264 psi	212°F (100°C)	D-648
<u>Coefficient of Thermal Expansion</u>		
Inch/inch/°F	6x10 ⁻⁵ /cm/°C	D-696

ColorCast Acrylics™ material softens sufficiently at approx. 180°F (82.22°C), which enables bending, should that be desired. It can also be drilled, sawed, sheared, and bonded to itself or other materials. Cast acrylics have thickness variations that may present difficulties in applications where thickness tolerance is important (i.e. fitting into extrusion, thermoforming application where walls must maintain uniform thickness and assembly of complex structures.) Remember to check gauge when non-contact engraving takes place and to periodically re-check focal lengths when laser engraving. In some cases, thickness variations may require the operator to make multiple passes during laser engraving.

Electrically non-conductive, Insulative. Meets 10¹² Ohms/square meter or higher in electrical resistivity, RoHS compliant (halogen-free), PVC-free, Formaldehyde and Phenol free, clean room compliant and rated UL 94 HB. Material was judged as not contributing to the combustion of the base material.

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