



Physical Properties	Specifications
Substrate	100% impact modified acrylic
Substrate Colours	Transparent
Substrate Gauges	0.030 to 0.500 mils
Sheet Sizes	Up to 48" width x 144" length
Fabrication Properties	Router, die-cut, shearing, laser
UV Light Resistance	Not applicable
Abrasion	Taber abrasion testing – 600 cycles with CS 10 wheel/1,000 grams
Chemical Resistance	Exhibits slight to no reaction to nail varnish remover after five minutes' contact with the surface under glass and with subsequent sealing.
Scratch Hardness	Hoffman sclerometer – SD1610/1,600 grams
Vicat Softening Temperature	275–375 degrees F
Specific Gravity	ASTM D-792 at 73 F 1.15 g/cm <sup>3</sup>
Tensile Modulus	ASTM D-638 250,000 p.s.i.
Izod Impact Strength	ASTM D-256 @ 73 F 1.1 ft-lbs/in
Coefficient of Thermal Expansion	ASTM D-696 5.0 x 10 <sup>-5</sup> in/(in-F)
Tensile Strength @ Yield	ASTM D-638 @ 73 F 5,600 p.s.i.
Flexural Strength @ Yield	ASTM D-790 @ 73 F 8,300 p.s.i.
Heat Deflection Temperature	ASTM D-648 (264 p.s.i. unannealed) 185 degrees F
Self-Ignition Temperature	ASTM D-1929 >850 degrees F
Hardness	ASTM D-785 Rockwell 46
Shrinkage from Mould Dimensions	ASTM D-955 3–6 mil/in
Moisture/Water Absorption	ASTM D-570 0.3% weight gain
Smoke Density Class	ASTM D-2843 16.5%
Flammability	ASTM D-635 1.97 in/minute

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