

LAZER EXTREMES Technical Data Sheet

<u>Physical Properties</u>	<u>Specifications</u>
Substrate:	Acrylic
Substrate Colors:	Black & White (Blue, Red, Gold Silver available in some gauges)
Substrate Gauges:	.020 to .120mils
Sheet Sizes:	24.25" x 49"
Fabrication Properties:	Router, shears, lasers, saws, drills, scores and bevels
UV Light Resistance:	Q panel Accelerated Weathering Tester/ UVA340EL Lamps. >3,000 hours continuous UV/moisture exposure
Abrasion :	ASTM D4060 Taber testing passed > 1000 cycles CS10 wheel/500 gram
Cleaning Instructions	Cleaning materials such as pledge, all purpose cleaner (Formula 409), mild soap, window cleaner (Windex), bleach cleaner, citrus cleaner, Novus Plastic Polish (level 1) are recommended and should be applied using a soft cloth with minimal pressure. Do not use abrasives such as rubbing compounds or cleaners.
Optical:	Matte Finish
Vicat Softening Point	ASTM D-1525 208 degrees F (50 degrees C/hr; 10N) ASTM D-1525 187 degrees F (50 degrees C/hr; 50N)
Specific Gravity	ASTM D-792 1.15
Tensile Modulus	ASTM D-638 270,000 psi
Izod Impact	ASTM D-256 @ 73 F 1.1 ft lbs/in notch
Flexural Modulus	ASTM D-790 270,000 PSI
Thermal Conductivity	ASTM C177 1.5 BTU/hr*ft ² *F/in
Tensile Strength @ Maximum	ASTM D-638 5,500 psi
Flexural Strength @ Maximum	ASTM D-790 10,300 psi
Heat Deflection Temperature	ASTM D-648 (0.455 MPa; annealed) 192 degrees F ASTM D-648 (1.82 MPa; annealed) 175 degrees F
Hardness	ASTM D-785 45M Rockwell
Melt Flow Rate	ASTM D-1238 1.0g/10 min (230 degrees C/3.8 kg)

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