

## Material Information Sheet

### Material Description: LaserMax Tri-Layer

| Specifications    |                                                               |
|-------------------|---------------------------------------------------------------|
| Material:         | Laminated UV-Stable Impact Modified Acrylic                   |
| Finish:           | Matte   Non-Glare                                             |
| Sheet Size:       | 24"x 48" (610 x 1219 mm)                                      |
| Thickness: 2-Ply  | 1/16" (1.6mm)                                                 |
| Usage:            | Interior, Exterior Signage   Control Panels   Industrial Tags |
| Engraving Method: | Laser   Rotating carbide                                      |

| Physical Properties                                              | Typical Values                  | ASTM Method |
|------------------------------------------------------------------|---------------------------------|-------------|
| <u>IZOD Impact Strength</u>                                      |                                 |             |
| Notched at 73°F (22.78°C)                                        | 1.10ft lbs/in                   | D-256       |
| <u>Tensile Strength</u>                                          |                                 |             |
| To break                                                         | 5,500 psi                       | D-638       |
| Elongation before break                                          | 50%                             | D-638       |
| <u>Flexural Strength</u>                                         |                                 |             |
| Load to stretch outer surface 5%                                 | 10,300 psi                      | D-790       |
| <u>Electrical – Arc Resistance</u>                               | 10 <sup>12</sup> Ohms/Sq. Meter | D-495       |
| <u>Rockwell Hardness</u>                                         | M45                             | D-785       |
| <u>Specific Gravity</u>                                          | 1.15                            | D-792       |
| <u>Deflection Temperature</u>                                    |                                 |             |
| Temperature at which material deflects .010" (.254mm) at 264 psi | 180°F (79.44°C)                 | D-648       |
| <u>Coefficient of Thermal Expansion</u>                          |                                 |             |
| Inch/inch/°F                                                     | 5.6 x 10 <sup>-5</sup>          | D-696       |
| <u>Vicat Softening Point</u>                                     |                                 |             |
| Temperature for needle to penetrate 1mm (90°F/hr, 2.2 lbs)       | 208°F (97.78°C)                 | D-1525      |

**LaserMax Tri-Layer** 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. Rowmark uses UV stable plastic resins and films in the manufacture of its products to prolong the useful life of the material when used in reasonable exterior conditions as such, Rowmark products will remain colorfast for 2+ years.

Electrically non-conductive, Insulative. Meets 10<sup>12</sup> Ohms/square meter or higher in electrical resistivity, RoHS compliant (halogen-free), PVC-free, Formaldehyde and Phenol free and rated UL 94 HB. Material was judged as not contributing to the combustion of the base material.

#### Terms & Condition of Sale

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