

## Material Information Sheet

### Material Description: Reflect-R-Mark®

| Specifications    |                                            |
|-------------------|--------------------------------------------|
| Material:         | Laminated Impact Modified Acrylic          |
| Finish:           | Semi-Gloss                                 |
| Sheet Size:       | 24"x 48 (610 x 1219 mm)                    |
| Thickness: 2-Ply  | 1/16" (1.6mm)                              |
| Usage:            | Interior, Exterior Signage   Legend Plates |
| Engraving Method: | 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      |

**Reflect-R-Mark®** 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 conditions as such, Rowmark UV stable materials are warranted for colorfastness 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, clean room compliant 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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