

## Material Information Sheet

### Material Description: Metalgraph Plus®

| Specifications    |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Material:         | Micro-surfaced Impact Modified Acrylic                                      |
| Finish:           | Brushed Metal                                                               |
| Sheet Size:       | 24" x 48 3/4" (610 x 1238 mm)                                               |
| Thickness: 2-Ply  | 1/32" (0.8mm)   1/16" (1.6 mm)   1/8" (3.2 mm)                              |
| Usage:            | Interior, Exterior Signage   Personal Identification   Awards & Recognition |
| Engraving Method: | Laser   Rotary                                                              |
| Cutting Depth:    | .003" (.08mm)                                                               |

| Physical Properties                                              | Typical Values  | ASTM Method |
|------------------------------------------------------------------|-----------------|-------------|
| <b>IZOD Impact Strength</b>                                      |                 |             |
| Notched at 73°F (22.78°C)                                        | 1.10ft lbs/in   | D-256       |
| <b>Tensile Strength</b>                                          |                 |             |
| To break                                                         | 5,500 psi       | D-638       |
| Elongation before break                                          | 50%             | D-638       |
| <b>Flexural Strength</b>                                         |                 |             |
| Load to stretch outer surface 5%                                 | 10,300 psi      | D-790       |
| Specific Gravity                                                 | 1.15            | D-792       |
| Rockwell Hardness                                                | M45             | D-785       |
| <b>Deflection Temperature</b>                                    |                 |             |
| Temperature at which material deflects .010" (.254mm) at 264 psi | 175°F (79.44°C) | D-648       |
| <b>Vicat Softening Point</b>                                     |                 |             |
| Temperature for needle to penetrate 1mm (90°F/hr, 2.2 lbs)       | 208°F (97.78°C) | D-1525      |

**Metalgraph Plus®** material softens sufficiently at about 180°F (82.22°C), which enables bending, should that be desired. It can also be drilled, saw cut, sheared, and bonded to itself or other materials. Electrically non-conductive, Insulative, Non-flammable. Meets 10<sup>12</sup> Ohms/square meter or higher in electrical resistivity, RoHS compliant (halogen-free), PVC-free, Formaldehyde and Phenol free and UL 94 HB rated. Material was judged as not contributing to the combustion of the base material.

### Terms & Condition of Sale

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