

## Material Information Sheet

### Material Description: MATTES

| Specifications             |                                                                   |
|----------------------------|-------------------------------------------------------------------|
| Material:                  | Micro-surfaced ABS (Acrylonitrile Butadiene Styrene)              |
| Finish:                    | Matte   Non-glare   Patterned                                     |
| Sheet Size:                | 24"x 48 3/4" (610 x 1238 mm)                                      |
| Thickness: 2-Ply and 3-Ply | 1/16" (1.6mm)<br>1/8" (3.2mm)                                     |
| Usage:                     | Interior Signage   Personal Identification   Awards & Recognition |
| Engraving Method:          | Rotating carbide                                                  |
| Cutting Depth:             | .003"   .08 mm                                                    |

| 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 | 175°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      |

**Mattes** 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. 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.

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