



MARKING SERVICES, INC.

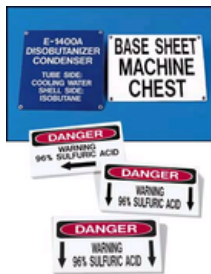
MS-215 MAX-TEK™ SIGNS & TAGS

DESCRIPTION



MS-215 Signs and Tags are constructed of printed graphics sealed between layers of chemical resistant plastic. The top layer is a hardcoated polycarbonate that provides excellent resistance to process chemicals, protection from high impact and functions as a UV filter to prevent fading of printing and graphics. The substrate is available in two thicknesses: the standard gauge (rigid) provides excellent stiffness for rigid sign requirements; the thinner gauge (flexible) allows signs to be mounted on curved surfaces. The sign construction has been tested with chemicals common to pulp and paper mills (black and white liquors) and petrochemical facilities (process hydrocarbons, solvents, acids). None of these substances has any effect on the signs.

PHYSICAL & CHEMICAL CHARACTERISTICS



- Base Material for 215F:** .020" (.5mm) thick flexible polycarbonate
- Base Material for 215R:** .100" (2.54mm) thick rigid Acrylic Clad ABS
- Total Thickness 215F:** Single Sided:0.030" (.76mm)-(base, label, adhesive, protective outer layer)
Double Sided:0.040" (1.01mm)-(2 each base, label, adhesive, protective outer layer)
- Total Thickness 215R:** Single Sided:0.110" (2.8mm)-(base, label, adhesive, protective outer layer)
Double Sided:0.120" (3.04mm)-(2 each base, label, adhesive, protective outer layer)
- Service Temperature:** -40°F through 200°F (-40°C thru 93°C)
- Standard Colors:**
 - BLACK (WHITE text)
 - GREEN (WHITE text)
 - RED (WHITE text)
 - BLUE (WHITE text)
 - BROWN (WHITE text)
 - WHITE (BLACK text)
 - YELLOW (BLACK text)
 - ORANGE (BLACK text)
- Non-standard Colors:** Additional colors available on request
- Mounting:** Adhesive backing and/or grommets or holes with washers
- Finish:** Matte finish with beveled edges
- Text Height:** Sized to fit within tag boundary or comply with specified height
- Water Resistance:** Excellent
- Outdoor Durability:** 5 years minimum
- UV Resistance:** Excellent; UV stable; resists yellowing and hazing with a yellowing index of less than 3.0 at 1,500 hours of QUV testing.
- Storage Stability:** 5 years minimum

*Information on physical and chemical characteristics is based on tests we believe to be reliable. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material for their specific application.
Created on 2/10/2011*

Abrasion Resistance: Excellent

Chemical Resistance: Very Good except for Acetone, MEK and Methylene Chloride
One hour continuous surface contact @ 73°F (23° C)

Toluene: passed
Isopropyl Alcohol: passed
Cyclohexanone: passed
Ethyl Acetate: passed
Xylene: passed
40% NaOH: passed
Concentrated HCl: passed
Gasoline: passed
Butyl Cellosolve: passed

Typical sizes (H x W):

<input type="checkbox"/> 1.5" (38 mm) diameter	<input type="checkbox"/> 3 x 6" (76 x 152 mm)
<input type="checkbox"/> 1.5" x 1.5" (38 x 38 mm)	<input type="checkbox"/> 4 x 8" (102 x 203 mm)
<input type="checkbox"/> 2" (51 mm) diameter	<input type="checkbox"/> 7 x 12" (178 x 305 mm)
<input type="checkbox"/> 2" x 2" (51 x 51 mm)	<input type="checkbox"/> 10 x 14" (254 x 356 mm)
<input type="checkbox"/> 1 x 3" (25 x 76 mm)	<input type="checkbox"/> 12 x 20" (305 x 508 mm)
<input type="checkbox"/> 2 x 3" (51 x 76 mm)	<input type="checkbox"/> Other (specify: height x width)
<input type="checkbox"/> 2 x 4" (51 x 102 mm)	