



# MS-215F REFLECTIVE TAGS

## Technical Data



### Description

MS-215F reflective tags are constructed of printed graphics sealed between layers of chemical resistant plastic. The top layer is an outdoor durable thermoplastic that provides excellent resistance to process chemicals, impacts and functions as a UV filter to prevent fading of printed graphics. The graphics layer can be customized to meet the required reflective intensity specification. The base substrate is a flexible thermoplastic which allows signs to be mounted on curved surfaces. The sign construction has been tested with chemicals common to pulp, paper mills and petrochemical facilities with no adverse effect. MS-215F reflective tags are furnished with high strength 3M468HP acrylic adhesive pre-applied for fast attachment to stainless steel and other smooth surfaces.

### Physical and Chemical Characteristics

<b>Base Material:</b>	Semi-Flexible Thermoplastic	
<b>Material Thickness:</b>	Single Sided: .030" (.76 mm)   Double Sided: .040" (1.01 mm)	
<b>Service Temperature:</b>	-40°F to 200°F (-40°C to 93°C)	
<b>Application Temperature:</b>	W/ adhesive +50°F (10°C)	
<b>Chemical Resistance:</b>	Excellent	
<b>Water Resistance:</b>	Excellent	
<b>Expected Outdoor Durability:</b>	Excellent (5+ Years), Tested to ASTM D 7869	
<b>Storage Durability:</b>	W/ Adhesive - Up to 2 Years   W/O Adhesive - 5+ Years	
<b>Abrasion Resistance:</b>	Excellent	
<b>Mounting:</b>	Adhesive backing, grommets, holes	
<b>Finish:</b>	Matte finish	
<b>Text Height:</b>	Sized to fit within tag boundary or comply with specified height	
<b>Typical Sizes:</b>	Customizable (see chart)	
<b>Standard Colors:</b>	Customizable (see chart)	
<b>Options:</b>	Reflective or Photoluminescent	
<b>Chemical Table:</b>	One-hour continuous surface contact @ 73°F (23°C) Toluene: No visible effect Isopropyl Alcohol: No visible effect Cyclohexanone: No visible effect Ethyl Acetate: No visible effect Xylene: No visible effect 40% NaOH: No visible effect	One-hour continuous surface contact @ 73°F (23°C) Concentrated HCl: No visible effect Gasoline: No visible effect Butyl Cellosolve: No visible effect Acetone: Failure MEK: Failure Methylene Chloride: Failure



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<b>Standard Colors:</b> <b>(Non-standard colors available upon request)</b>	<input type="checkbox"/> BLACK (WHITE text) <input type="checkbox"/> GREEN (WHITE text) <input type="checkbox"/> RED (WHITE text) <input type="checkbox"/> BLUE (WHITE text)	<input type="checkbox"/> BROWN (WHITE text) <input type="checkbox"/> WHITE (BLACK text) <input type="checkbox"/> YELLOW (BLACK text) <input type="checkbox"/> ORANGE (BLACK text)
<b>Typical Sizes (H x W):</b>	<input type="checkbox"/> 1.5" (38 mm) diameter <input type="checkbox"/> 1.5" x 1.5" (38 x 38 mm) <input type="checkbox"/> 1" x 3" (25 x 76 mm) <input type="checkbox"/> 2" x 4" (51 x 102 mm) <input type="checkbox"/> 4" x 8" (102 x 203 mm) <input type="checkbox"/> 10" x 14" (254 x 356 mm) <input type="checkbox"/> 2" (51 mm) diameter	<input type="checkbox"/> 2" x 2" (51 x 51 mm) <input type="checkbox"/> 2" x 3" (51 x 76 mm) <input type="checkbox"/> 3" x 6" (76 x 152 mm) <input type="checkbox"/> 7" x 12" (178 x 305 mm) <input type="checkbox"/> 12" x 20" (305 x 508 mm) <input type="checkbox"/> Other (specify: H x W)
<b>Text Height:</b>	Sized to fit within tag boundary or comply with specified height	

*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.*

Revised on 11/24/2021