



MS-215R TAGS AND SIGNS

Technical Data



Description

MS-215R Signs and Tags are constructed of printed graphics sealed between layers of chemical resistant plastic. The top layer is a hard-coated 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, .100" base) provides excellent stiffness for rigid sign requirements. There also is an optional .175" very rigid base offered for larger format signs or upon request. The sign construction has been tested with chemicals common to pulp, paper mills and petrochemical facilities with no adverse effect. Wind tunnel tested to 200 mph.

Physical and Chemical Characteristics

Base Material for 215R:	0.100" (2.54 mm) or 0.175" (4.45 mm) thick rigid polymer
Total Thickness:	Single Sided: 0.110" or 0.185" (2.8 mm or 4.7 mm) - (base, label, adhesive, protective outer layer); Double Sided: 0.120" or 0.195" (3.04 mm or 4.96 mm) -(2 each base, label, adhesive, protective outer layer)
Service Temperature:	-40°F through 200°F (-40°C thru 93°C)
Water Resistance:	Excellent
Expected Outdoor Durability:	5 years
UV Resistance:	Excellent; UV stable; resists yellowing and hazing
Storage Stability:	5 years minimum
Chemical Resistance:	One-hour continuous surface contact @ 73°F (23°C); Ethyl Acetate: No visible effect; Xylene: No visible effect; 40% NaOH: No visible effect; Concentrated HCl: No visible effect; Gasoline: No visible effect; Butyl Cellosolve: No visible effect; Toluene: No visible effect; Isopropyl Alcohol: No visible effect; Cyclohexanone: No visible effect; Acetone: Failure; MEK: Failure; Methylene Chloride: Failure
Abrasion Resistance:	Excellent; CS10F Wheel, 500 Grams; 25 Change in % Haze 0.4; 50 Change in % Haze 0.6; 100 Change in % Haze 2
Surface Optical Clarity:	Gloss over Flat Black min/max @ 60 – ASTM; D523-60 (ISO 2813) – Units: 12; UV% Transmission @ 380 nm – UV/Visual; Spectroscopy – Units: 14%; Refractive Index @ 77°F (25°C) - ASTM D542A – Units: 1.5; Light Transmission – ASTM D1003 – Units: 90%; Yellowness Index – ASTM D1925 – Units: 1.3%; Haze – ASTM D1003 - Units: 56%
Finish:	Matte finish with beveled edges (parallel edges available)
Mounting:	Adhesive backing, grommets, holes with washers or foam tape





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Standard Colors: (Non-standard colors available upon request)	<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)
Typical Sizes (H x W):	<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)
Text Height:	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.

