Marking Services Incorporated

MS-215F TAGS AND SIGNS

Technical Data

Description

MS-215F 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, impacts and functions as a UV filter to prevent fading of printed graphics. The substrate is flexible, .020" polycarbonate base 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.

Physical and Chemical Characteristics

Base Material for 215F:	0.020" (.5 mm) thick flexible polycarbonate
Total Thickness:	Single Sided: 0.030" (.76 mm) - (base, label, adhesive, protective outer layer); Double Sided: 0.040" (1.01 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); 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; Concentrated HCI: No visible effect; Gasoline: No visible effect; Butyl Cellosolve: 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; 200 Change in % Have 6.7
Surface Optical Clarity:	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%; Gloss over Flat Black min/max @ 60 – ASTM D523-60 (ISO 2813) – Units: 12; UV% Transmission @ 380 nm – UV/Visual; Spectroscopy – Units: 14%
Finish:	Matte finish with parallel edges
Mounting:	Adhesive backing, grommets, holes

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Standard Colors: **(Non-standard colors available upon request)**	☐ BLACK (WHITE text) ☐ GREEN (WHITE text) ☐ RED (WHITE text) ☐ BLUE (WHITE text)	☐ BROWN (WHITE text) ☐ WHITE (BLACK text) ☐ YELLOW (BLACK text) ☐ ORANGE (BLACK text)
Typical Sizes (H x W):	☐ 1.5” (38 mm) diameter ☐ 1.5” x 1.5” (38 x 38 mm) ☐ 1” x 3” (25 x 76 mm) ☐ 2” x 4” (51 x 102 mm) ☐ 4” x 8” (102 x 203 mm) ☐ 10” x 14” (254 x 356 mm) ☐ 2” (51 mm) diameter	☐ 2” x 2” (51 x 51 mm) ☐ 2” x 3” (51 x 76 mm) ☐ 3” x 6” (76 x 152 mm) ☐ 7” x 12” (178 x 305 mm) ☐ 12” x 20” (305 x 508 mm) ☐ 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.

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