



MS-230R NFC TAGS

Technical Data



Description

MS-230R NFC tags are constructed of printed graphics and NFC tag sealed between layers of chemical resistant plastic. The top layer is an outdoor durable thermoplastic 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 Near Field Communication (NFC) portion of the tag is in the 13.56 MHz range of RFID. This allows a reading of one single tag with an electronic device per scan. Read distance is 1" (25mm) or less. MS-230R NFC Tags can be used on metal surfaces. The substrate provides excellent stiffness for rigid sign requirements. The sign construction has been tested with chemicals common to pulp, paper mills and petrochemical facilities with no adverse effect

NFC Tag Parameters

Chip: NXP I Code SLIX2
 IC Protocol: ISO/IEC 15693
 ISO Frequency: 13.56 MHz
 User Memory: 2560 bitct. Wind tunnel tested to 200 mph.

Physical and Chemical Characteristics

Base Material:	0.100" (2.54 mm) thick rigid polymer
Material Thickness:	Single Sided: 0.110" (2.8 mm) - (base, label, adhesive, protective outer layer); Double Sided: 0.120" (3.04 mm) - (2 each base, label, adhesive, protective outer layer)
Service Temperature:	-40°F through 200°F (-40°C thru 93°C)
Application Temperature:	w/ adhesive + 50°F (10°C)
Chemical Resistance:	Excellent
Water Resistance:	Excellent
Expected Outdoor Durability:	Excellent (5+ Years) Tested to ASTM D 7869
Storage Durability:	(5+ Years)
Abrasion Resistance:	Excellent
Mounting:	Adhesive backing, grommets, holes with washers or foam tape
Finish:	Matte finish with beveled edges (parallel edges available)
Text Height:	See Chart Below
Typical Sizes:	Customizable See Chart Below
Standard Colors:	Customizable See Chart Below
Options:	Available in Engineering Grade and High Intensity Prismatic reflective materials. Thickness may vary.
Chemical Table:	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



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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"/> 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" 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.

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