MARKING SERVICES, INC.

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▶ TECHNICAL DATA

MS-260 MAXTEK™ PHOTOLUMINESCENT SIGNS & TAGS

DESCRIPTION

MS-260 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) 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

Material:	0.007" (0.177mm) thick polycarbonate (protective top or outer layer 0.100” 2.54mm) thick acrylic clad ABS (rigid sign substrate) .020” thick polycarbonate (flexible sign substrate) Strontium Oxide Aluminate coated polyester film Note: Two Sided Flexible signs or tags will have two outer layers of 0.007" (0.177mm) thick and one center layer of .020” (0.5 mm) thick substrate layer
Service Temperature Range:	-40º F through 200º F (-40ºC to 93ºC)
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.
Afterglow:	Afterglow luminance was measured in accordance with DIN 67510 Standard. Excitation: Xe Lamp, 1,000 Lux, 5 minutes. Temperature: 22° +/- 2°C. 10 minutes 60 minutes Decay time to 0.3 mcd/sq. M 28.2 mcd./sq.M4.1 mcd./sq.M 405 minutes
Storage Stability:	5 years minimum
Abrasion Resistance:	Excellent
Chemical Resistance:	Very Good except for Acetone, MEK and Methylene Chloride One hour continuous surface contact @ 73ºF (23ºC)

C1-10 Normal Alkanes	passed
Toluene	passed
Isopropyl Alcohol	passed
Cyclohexanone	passed
Ethyl Acetate	passed
Xylene	passed
40% NaOH	passed
Concentrated HCl	passed
Gasoline	passed
Butyl Cellosolve	passed

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Photoluminescent Standards Met:	• IMO Resolution A.752(18) • ISO/CD 15370:2001 • ASTM E 162 / E 648 / E 662 • ASTM E 2072-00 Standard Specifications for Photoluminescent Safety Marking • ASTM E 2073-00 Standard Test Method for Photopic Luminance of Photoluminescent Markings • PSPA Standard 002 Part 2 1993 Class A Rev 2: 09/99

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