Brimar

Product Information Bulletin

64 Outwater Lane, Garfield, NJ 07026 Ph: 973-340-7889 | Fax: 973-340-7809

ANSI / ASME A13.1 SIZE COLOR LETTERING 100% COMPLIANT BII CERTIFIED

High-Performance Pipe Markers

High Temp. Markers

Compliance:
- ANSI / ASME A13.1-2023 “Scheme for the Identification of Piping Systems”
- ANSI Z535.1 “Safety Color Code”
- NFPA 99 Health Care Facilities Code
- **LEED Compliance:** This product is in compliance with the Standards set forth by the South Coast Air Quality Management District (SCAQMD) Rule #1168 and the Green Seal Standard, GS-36 for Commercial Adhesives pertaining to Volatile Organic Compounds (VOC). The adhesive backing on this product contains < 4.4 grams / Liter VOC.

Halide Content: These are considered low halide markers as the materials are non-halogenated and free of chlorides & fluorides.

Material:
Sizes 4A, 4B, 4E and 4F are constructed using a 5 mil polyester with a 1 mil polyester overlam. The image is applied with UV resistant inks. These markers are affixed to themselves with a clear high performance Tedlar sealing strip. Sizes AR4B, AR4E and AR4F offer 360° visibility.

Sizes 4G and 4H are constructed using a 2 mil (.002) polyester with a 1 mil (.001) acrylic adhesive. This marker is then mounted to a .032 thick high temperature white aluminum carrier. Size AR4H is secured to pipes using stainless steel strapping or nylon straps. (S.S. Strapping & nylon straps are sold separately)

Use:
Identify piping systems of industrial environments that are expected to reach higher temperatures or high exposure to chemicals. Arrows & legends are printed repeatedly in opposite directions allowing the marker to be applied in any direction achieving proper reading while indicating pipe content flow.

1 Snap-Around Markers
(Styles 4A, 4B, 4E & 4F)
With Clear Adhesive Strip

2 Strap-On Marker
(Styles 4G & 4H)

On Aluminum Carrier

SIZE CHART

MARKER STYLE	OUTSIDE PIPE DIAMETER	MARKER WIDTH	CHARACTER SIZE
4A*	1/2″ - 1″ (13 - 25 mm)	8″ (203 mm)	1/2″ (13 mm)
4B*	1-1/8″ - 2-3/8″ (29 - 60mm)	8″ (203mm)	3/4″ (19mm)
4E*	2-1/2" x 4-3/4" (64 - 111mm)	12″ (305mm)	1-1/4″ (32mm)
4F*	5″ - 7-7/8″ (127 - 200mm)	12″ (305mm)	1-1/4″ (32mm)
4G**	8″ - 10″ (203 - 254mm)	24″ (610mm)	2-1/2″ (64mm)
4H**	Over 10″ (Over 254mm)	32″ (813mm)	3-1/2″ (89mm)

* Supplied with clear high performance sealing strip.
** Strap on mounting method (S.S. strapping & nylon ties sold separately)

Chemical Resistance
UV Rated
C1-10 Alkanes: Good
Water: Excellent
10% Caustic: Excellent
50% Caustic: Good
Methanol: Excellent
Hydrochloric Acid: Excellent
Fuel Oil: Excellent
Acetic Acid: Good
Acetone: Good
Abrasion Resistance: Good

Surface Preparation: None
Outdoor Durability: 5 to 8 years Mid Continental US

Service Temp: -40°F to 248°F (-40°C to 120°C)

Storage Stability: Indefinite shelf life at conditions of 70°F (21°C) and 60% RH.

STANDARD COLORS

Flammable, Combustible, or Oxidizing	Potable, Cooling, or Other Cold or Tepid Water
Compressed Air	Firefighting
Toxic or Corrosive	Steam; or Steam Condensate, Boiler Feedwater, or Other Hot Water
Defined By User	Defined By User
Defined By User	Defined By User
Defined By User	

DATE: / / JOB: _____

CONTRACTOR: _____

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HIGH-PERFORMANCE PIPE MARKER CLEAR POLYESTER OVERLAMINATE

- 1.0 mil clear polyester has excellent abrasion, humidity, chemical and solvent resistance
- Protects the underlying graphics from harsh environmental conditions
- Provides a high-gloss appearance to printed graphics
- Adhesive exhibits good clarity and cold-flow properties, resulting in good wet-out performance

PRODUCT DATA	VALUE		TEST METHOD
Physical Properties			
Thickness (Mils[microns])	Film	1.0 (25) +/- 10%	ASTM D 3652 (Modified for use with non-tape products)
	Adhesive	0.9-1.0 (23-25) +/- 0.1 (3)	
	Liner	1.0 (25) +/- 5%	
Dimensional Stability (%)	No Shrinkage Observed		Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)
Adhesion Properties			
Ultimate Peel from	Average		ASTM D 903 (Modified for 72 hour dwell time)
	Oz/In	(N/m)	
Acrylic	45	(495)	
Glass	29	(319)	
Metal	41	(451)	
Polyester	43	(473)	
Polyethylene	24	(264)	
Polyethylene Corona Treated	35	(385)	
Polypropylene	5	(55)	
PVC	46	(506)	
Stainless Steel	34	(374)	
Styrene	44	(484)	
Expected Shear			ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	25		
Tack (gm/sq cm)	320		ASTM D 2979

Service Temperature Range	-40°F to 248°F (-40°C to 120°C)
Minimum Application Temperature	50°F (10°C)
Storage Stability	Two years when stored at 70°F (21°C) and 50% RH

DATE: / / **JOB:** _____

CONTRACTOR: _____