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 Temp. Self-Adhesive Pipe Markers

High Temp. Poly Pipe Markers

CHILLED WATER RET.

MARKER STYLE	OUTSIDE PIPE DIAMETER	MARKER DIMENSIONS	RECOMM. MAX. CHARACT.	ARROWS: ALTERN. MATCHING ARROW	ARROWS: SIZE OF LETTERS
1SM	1 1/2" - 2 3/8" 38 - 60mm	8 x 1 1/8" 203 x 29mm	18	4 x 1 1/8" 102 x 29mm	3/4 inch 19mm
1	2 1/2" - 7 7/8" 64 - 200mm	14 x 2 1/4" 356 x 57mm	22	6 x 2 1/4" 152 x 57mm	1 1/4 inch 32mm
1LG	8" - 10" 203 - 254mm	24 x 4" 610 x 102mm	22	7 x 4" 178 x 102mm	2 1/2 inch 64mm
1XLG	OVER 10" Over 254mm	32 x 4" 813 x 102mm	22	7 x 4" 178 x 102mm	3 1/2 inch 89mm

MARKER INSTALLATION

STANDARD COLORS

- Flammable, Combustible, or Oxidizing
- Potable, Cooling, or Other Cold or Tepid Water
- Compressed Air
- Firefighting
- Toxic or Corrosive
- Defined By User
- Defined By User

Compliance:
• ANSI / ASME A13.1-2023 “Scheme for the Identification of Piping Systems”
• ANSI Z535.1 “Safety Color 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:
High Temp. Self-Adhesive Pipe Markers are constructed with 2 Mil White Polyester with hi-performance pressure sensitive acrylic adhesive backing, and overlaminated with 1 mil clear polyester. Polyester offers superior chemical and temperature resistance to vinyl markers.

Adhesive:
Aggressive solvent based acrylic adhesive with excellent adhesion properties on a broad base of application substrates such as Stainless Steel, Acrylic, Glass, Coated Metals and Plastics. Backed with a layflat 90 lb. moisture stable polycoated release liner ideal for sheet-form converting.

Use:
Identify piping systems of industrial environments that are expected to reach higher temperatures or high exposure to chemicals. Use High Temp. Self-Adhesive Pipe Markers in conjunction with Matching Arrows to identify both, pipe content and directional flow for full compliance with ANSI / ASME A13.1-2023.

Surface Preparation:
Surface must be dry and reasonably clean prior to applying adhesive backed label product. Minimum Surface Temperature 50°F (10°C).

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

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.

DATE: ____/____/____ JOB: _____

CONTRACTOR: _____

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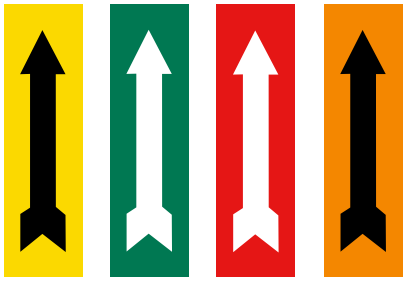
High Temp. Self-Adhesive Arrow Cards

Use with System#5 Pipe Markers



MARKER STYLE	OUTSIDE PIPE DIAMETER	MARKER DIMENSIONS	ARROW SIZE
1SM	1-1/2" - 2-3/8" / 38 - 60mm	4 x 1-1/8" / 102 x 29mm	3 x 3/4" / 76 x 19mm
1	2-1/2" - 7-7/8" / 64 - 200mm	6 x 2-1/4" / 152 x 57mm	5 x 1-1/4" / 127 x 32mm
1LG & 1XLG	Over 8" / 203mm	7 x 4" / 178 x 102mm	6-1/2 x 2-1/2" / 165 x 64mm

MARKER INSTALLATION

STANDARD COLORS

Flammable, Combustible, or Oxidizing

Potable, Cooling, or Other Cold or Tepid Water

Toxic or Corrosive

Firefighting

Compliance:
• ANSI / ASME A13.1-2023 "Scheme for the Identification of Piping Systems"
• ANSI Z535.1 "Safety Color 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:
High Temp. Self-Adhesive Pipe Markers are constructed with 2 Mil White Polyester with hi-performance pressure sensitive acrylic adhesive backing, and overlaminated with 1 mil clear polyester. Polyester offers superior chemical and temperature resistance to vinyl markers.

Adhesive:
Aggressive solvent based acrylic adhesive with excellent adhesion properties on a broad base of application substrates such as Stainless Steel, Acrylic, Glass, Coated Metals and Plastics. Backed with a layflat 90 lb. moisture stable polycoated release liner ideal for sheet-form converting.

Use:
Identify piping systems of industrial environments that are expected to reach higher temperatures or high exposure to chemicals. Use High Temp. Self-Adhesive Pipe Markers in conjunction with Matching Arrows to identify both, pipe content and directional flow for full compliance with ANSI / ASME A13.1-2023.

Surface Preparation:
Surface must be dry and reasonably clean prior to applying adhesive backed label product. Minimum Surface Temperature 50°F (10°C).

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

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.

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High Temp. Self-Adhesive 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
- UL-recognized under UL 969 - UL File No. PGGU2-MH10170 Marking and Labeling System Materials - Component

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:** _____

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High Temp. Self-Adhesive Pipe Marker White Polyester

- 2.0 mil gloss white polyester provides consistent surface smoothness, excellent dimensional stability and endurance to varying temperatures
- Aggressive permanent acrylic pressure-sensitive adhesive bonds well to low- and high-surface energy plastics, painted metal, powder-coated paint, polycarbonate and fiberglass.
- Backed with a 90 lb. moisture stable polycoated layflat release liner ideal for sheet-form converting
- UL recognized under UL 969 - UL File No. PGGU2.MH10170 Marking and Labeling System Materials - Component
- CSA accepted under CSA File No. 99214

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: _____