



Product Information Bulletin

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

System #5 Pipe Markers (High Temp Stick On Labels)

High Temp Poly Pipe Markers

CHILLED WATER RET.



MARKER STYLE	OUTSIDE PIPE DIAMETER	MARKER DIMENSIONS	RECOMM. MAX. CHARACT.	ALTERN. MATCHING ARROW	SIZE OF LETTERS
ISM	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 & *Oxidizing Fluids	Potable, Cooling, Boiler Feed, Waters
Compressed Air	Fire Quenching Fluids
Toxic, Corrosive Fluids	Combustible Fluids
NFPA 99 Colors	* New 2015 color classification

Compliance:

- ANSI / ASME A13.1-2015 "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.

Material:

System #5 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 System #5 Pipe Markers in conjunction with Matching Arrows to identify both, pipe content and directional flow for full compliance with ANSI / ASME A13.1-2015.

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

- 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: ___ / ___ / ___

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CONTRACTOR: _____

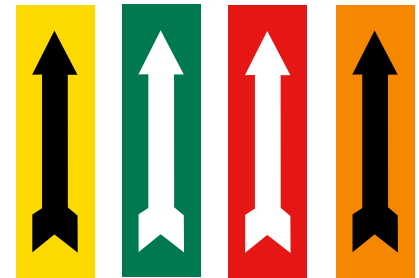


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System #5 Arrow Cards (High Temp Stick On Arrows)

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 & Oxidizing Fluids
- Potable, Cooling, Boiler Feed, Waters
- Toxic, Corrosive Fluids
- Fire Quenching Fluids

Compliance:

- ANSI / ASME A13.1-2015 "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.

Material:

System #5 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 System #5 Pipe Markers in conjunction with Matching Arrows to identify both, pipe content and directional flow for full compliance with ANSI / ASME A13.1-2015.

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

- 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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SYSTEM #5 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		

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SYSTEM #5 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%
	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		
Room Temp (hours)	25	ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Tack (gm/sq cm)	320	
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	

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