



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

## High Temp Poly Pipe Markers

# CHILLED WATER RET.

ARROWS

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

CHILLED WATER RET. →

### 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

#### Compliance:

- ANSI / ASME A13.1-2020 "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 A13.1-2020.

#### 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: \_\_\_ / \_\_\_ / \_\_\_

JOB: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

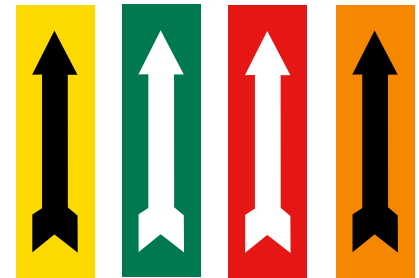


## Product Information Bulletin

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

# 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 A13.1-2020 "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 A13.1-2020.

#### 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: \_\_\_ / \_\_\_ / \_\_\_                      JOB: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_



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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	
<b>Physical Properties</b>			
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)	
<b>Adhesion Properties</b>			
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)		
<b>Expected Shear</b>		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	
<b>Service Temperature Range</b>	-40°F to 248°F (-40°C to 120°C)		
<b>Minimum Application Temperature</b>	50°F (10°C)		
<b>Storage Stability</b>	Two years when stored at 70°F (21°C) and 50% RH		

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CONTRACTOR: \_\_\_\_\_



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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
<b>Physical Properties</b>		
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)
<b>Adhesion Properties</b>		
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)	
<b>Expected Shear</b>		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	25	
<b>Tack (gm/sq cm)</b>	320	ASTM D 2979
<b>Service Temperature Range</b>	-40°F to 248°F (-40°C to 120°C)	
<b>Minimum Application Temperature</b>	50°F (10°C)	
<b>Storage Stability</b>	Two years when stored at 70°F (21°C) and 50% RH	

DATE: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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CONTRACTOR: \_\_\_\_\_