

## Technical Data Sheet

### Clarion Material Code P1

#### Primary Use

Clarion's **Protector™** (P1) pipe markers are in a class by themselves when it comes to performance. Our colors are made to exact ANSI/ASTM A13.1 color designation specifications with automotive-grade pigments to ensure long-term conformance to standards. To ensure adhesive performance, we utilize top-of-the-line 3M materials for our **Protector™** pipe markers. Why? Because your facility's pipe marking system is an important part of your overall visual safety system; a system that promotes safe work conditions, communicates critical safety information, and minimizes downtime due to errors in judgment and accidents. Custom legends are available.

#### Base Materials

.002 gloss radiant **3M™** white polyester

#### Overlaminates

None

#### Adhesive Backing

3M Premium Acrylic

#### Standard Sizes

Standard pipemarker sizes available

#### Outdoor Durability

Not recommended for outdoor use

#### Water Resistance

Good

#### Chemical Resistance

Good

#### Storage Stability

Stable. Optimum storage conditions: 72°F @ 50% relative humidity

#### Temperature Resistance

Rated -40°F to 300°F

#### Installation Temperature

50°F or higher

#### Specification Compliance

- Manufactured per ANSI/ASME A13.1 2015 Color Designations
- The 3M white polyester base component is **UL®** recognized (File MH16411), CSA accepted (File 99316) and meets British Standard BS-5609.

EXAMPLE



### Regulatory Compliance

- **EU RoHS Compliant** (EU Directive 2015/863/EU)  
Yes
- **China RoHS Compliant** (Does not exceed MCV in SJ/T 11364-2014)  
Yes
- **EU REACH Compliant** (Per the SVHC Candidate list effective July, 2019)  
Yes
- **Conflict Minerals:** Clarion Safety Systems confirms, based on reasonable information from our component suppliers, that none of the minerals defined by the SEC as “conflict minerals” are intentionally added to our label components.  
Yes
- **Country of Origin:** USA

### Expected Life

Indoor: Long term

Outdoor: Not recommended for outdoor use

### Shelf Life:

This material will retain its performance and properties for forty-eight (48) months (4 years) from date of manufacture if properly stored at room temperature conditions of 72°F (22°C) and 50% relative humidity. (All Clarion safety labels are shipped in high quality 4 mil. zip-locked sealed bags for improved storage.)

### Product Information

This technical product information is based upon information provided to Clarion by its suppliers of the raw materials we use to manufacture our products. As such Clarion makes no independent representations or warranties, expressed or implied, and assumes no liability in connection with the use of this information.

### Warranty

Clarion products are sold with the understanding that the buyers will test them in actual use and determine for themselves whether or not the materials meet their intended use requirements. Clarion warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Clarion's satisfaction to have been defective at the time Clarion sold it. This warranty does not extend to any persons obtaining the product from buyers. This warranty is in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on clarion's part. Under no circumstances will clarion be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Clarion's products.