

## Technical Data Sheet

### Clarion Material Code 4

#### Primary Use

The Clarion material is our Premium Polyester label material with a .003 velvet polycarbonate overlamine. It is primarily used for product safety labeling but is suitable for a variety of applications where high performance is a requirement. Such applications include but are not limited to barcode labels and rating plates, property ID and asset labeling, warning, instruction, service labels and nameplates for durable goods. The use of the 3M premium velvet polycarbonate overlamine offers the opportunity to achieve the superior graphic appearance of a subsurface printed label with an economical overlamine construction and provides an exceptional degree of humidity, chemical, and solvent resistance.

#### Base Material

Printed on 3M .002 premium white polyester

#### Overlamine

3M .003 Matte Velvet Polycarbonate

#### Adhesive Backing

3M Premium Acrylic

#### Standard Sizes

Standard label sizes available as well as almost any custom size

#### Outdoor Durability

Poor (Not recommended for long term outdoor applications)

#### Water Resistance

Excellent

#### Chemical Resistance

Excellent

#### Storage Stability

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

#### Temperature Resistance

Rated -40°F to 250°F

#### Installation Temperature

50°F or higher

#### Specification Compliance

- Clarion standard designs meet *ANSI Z535.1-2017 Standard for Safety Colors*.
- Meets applicable product safety standards as required by Nationally Recognized Testing Laboratories and under OSHA law 29 CFR 1910.399.
- The 3M white polyester base component is **UL**<sup>®</sup> recognized (File MH16411), CSA accepted (File 099316) and meets British Standard BS-5609.

EXAMPLE



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- The 3M polyester overlamine is **UL**® recognized (File MH11410) and CSA accepted (File 99316) for overlamination of polyester labelstocks.

#### 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 long term outdoor applications

#### 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.