

Product Bulletin

DuraLabel Outdoor Die-Cut Vinyl Labels

PRODUCT DESCRIPTION

A 3.0 mil polished polymeric flexible calendared vinyl with a permanent acrylic pressure sensitive adhesive laminated to a clay coated liner.

APPLICATIONS

Recommended for outdoor uses where a high quality marking film-requiring flexibility, durability and resistance to sunlight is required. Typical applications for this label stock include architectural signage, safety signage, commercial-retail signage, NFPA, RTK, GHS, & OSHA compliant signage.

PHYSICAL PROPERTIES

THICKNESS

| | |
|----------|----------------|
| Film | 3.0 mil |
| Adhesive | 0.8 to 1.0 mil |
| Liner | 4.0 mil |

(Thickness variance +/-10%)

DIMENSIONAL STABILITY

Good

TEMPERATURE RANGES

Minimum application temperature is +40°F.
Service Temperature range is -40°F to +200°F.

EXPECTED LIFETIME EXTERIOR COLOR FADE

Up to 5 years under normal
exposure conditions.

ADHESION

To stainless steel – 40 oz./in when tested according to PSTC-1 with 24 hour dwell at 70°F and 50% relative humidity. Typical values. Individual values may vary. Test thoroughly before production.

WATER RESISTANCE

Good

STORAGE STABILITY

1-year shelf life when stored at 70°F and 50% relative humidity.

CHEMICAL RESISTANCE — Printed

A sample is prepared by printing onto the substrate with the desired black resin ribbon. A chemical swab rub test is then performed, which consists of a maximum 100 rubs with a cotton swab which has been saturated in the respective chemical. Failure is recorded as the cycle count at which the print is no longer legible.

Ribbon: Petroleum Resistant Black Resin (DL PRO / PRO300)*

| Chemical | Cycle Count | Observation |
|-------------------------|--------------------|--------------------|
| Isopropyl Alcohol (91%) | 100 | Excellent |
| Denatured Alcohol | 100 | Excellent |
| Windex | 100 | Excellent |
| Degreaser | 100 | Excellent |
| WD-40 | 100 | Excellent |
| Mineral Spirits | 100 | Excellent |
| Transmission Fluid | 100 | Excellent |
| Motor Oil | 100 | Excellent |
| Brake Fluid | 100 | Excellent |
| Hydraulic Oil | 100 | Excellent |
| Roller Cleaner | 100 | Excellent |
| Terpene Defluxer | 100 | Excellent |

* Additional chemical resistance can be achieved by printing with the Extreme Chemical Resistant ribbon

ABRASION RESISTANCE — Printed

A sample is prepared by printing a 4.1" diameter circle label with specially positioned barcodes, graphics, & text. The sample is then adhered to a steel plate and subjected to a Taber Abrasion Test. The Taber Abrasion Test utilizes abrasive wheels with industry standard weight applied. Failure is recorded as the cycle count at which the print is no longer legible and/or barcodes can no longer be read.

Ribbon: Petroleum Resistant Black Resin (DL PRO / PRO300)*

Cycle Count: 175

Observation: Print no longer legible

* Additional abrasion resistance can be achieved by printing with the Extreme Chemical Resistant resin ribbon

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