Avery® NV1200 Reflective

Class 2 Engineer Grade Reflective

Features

- High gloss for superior appearance
- Brilliant Class 2 reflectivity
- Excellent sheet stability and layflatness for precise register and printing
- Excellent printability, conversion and application characteristics
- Excellent dimensional stability during use
- Clean and easy removability from most substrates for up to 5 years leaving virtually no residue
- Excellent outdoor durability
- Superb UV, humidity and saltspray resistance
- Excellent conformability to simple curves
- Custom colour matching available

Description

Film: 210 micron gloss retroreflective cast vinyl

Reflectivity: Class 2 Engineer Grade

CPL Value: 70 CPL typical

Adhesive: Removable acrylic

Removability: Up to 5 years

Backing: Two side polyethylene coated Staflat paper

Outdoor life: Up to 5 years (unprinted)

Colour: Custom Colour Match only

Conversion

- ☐ Flat bed cutters
- ☐ Friction fed cutters
- ▣ **Die cutting**
- ▣ **Thermal transfer**
- ▣ **Screen printing**
- ▣ **Cold overlaminating**
- ☐ Estat printing
- ☐ Water based inkjet
- ☐ Solvent inkjet
- ☐ Mild solvent inkjet

Common Applications

- Flat sided trucks
- Cars and vans
- Trains and light rail
- Emergency vehicles

Application

- Flat and simple curves
- Wet application method is not recommended

Uses

Avery NV1200 Reflective is ideal for a wide range of fleet and emergency service vehicle applications where engineer grade reflectivity and clean removability are required.

Physical characteristics

General

Caliper, facefilm	ISO 534	210 micron
Caliper, facefilm & adhesive	ISO 534	236 micron
Dimensional stability		0.76 mm max
Tensile stength	DIN 53455	***
Elongation	DIN 53455	***
Gloss	ISO 2813, 20º	***
Adhesion	ASTM D1000, Automotive Paint	***
Removability	Not when applied to nitrocellulose paints, fresh screenprint inks, ABS, polystyrene & certain types of PVC	Up to 5 years
Flammability		Self extinguishing
Shelf life	Stored at 22° C/50-55 % RH	1 year
Durability **	Vertical exposure	Up to 5 years (unprinted)

Thermal

Application temperature	Minimum: + 10°C
Temperature range	- 40°C to + 80°C

Important

Information on physical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of any material for their specific use.

All technical data is subject to change without prior notice.

Warranty

Avery® materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give guarantee, warranty, or make any representation contrary to the foregoing.

All Avery® materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

****Durability**

The durability is based on Australian exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing north; in areas of long high temperature exposure such as northern Australia; in industrially polluted areas or high altitudes, exterior performance will be decreased.

***Information unavailable at time of printing.

Test Methods

Dimensional stability:
Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°C, after which the shrinkage is measured.

Adhesion:
(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability:
A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:
A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:
All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Corrosion Resistance:
A specimen applied to aluminium is exposed to saline mist (5% salt) at 35ºC. After exposure, the film is removed and the panel is examined for traces of corrosion.

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