

Avery Dennison[®] MPI 6200 Premium Reflective Gloss Engineer Grade Reflective Cast Vinyl Permanent (Formerly MPI Premium Reflective)

Features

- Engineer grade white enclosed lens, retro-reflective film for high visibility applications
- Excellent printability on eco solvent, solvent and UV cured inkjet printers
- Excellent conversion and application characteristics
- Very good conformability to irregular shapes
- High gloss for superior appearance
- Excellent adhesion to a wide range of substrates
- Excellent dimensional stability after application
- Excellent outdoor durability
- Superb UV, humidity and salt spray resistance

Description



Film: 140 micron high gloss white retro-reflective cast vinyl



Adhesive: Clear permanent acrylic pressure-sensitive



Backing: Two side PE coated StaFlat™ paper



Outdoor life:**
Up to 7 years (unprinted)

Application surface: Flat, simple curves, rivets, compound curves.

Conversion*

- | | |
|--|---|
| <input type="checkbox"/> Flat bed cutters | <input type="checkbox"/> Cold overlaminating |
| <input type="checkbox"/> Friction fed cutters | <input checked="" type="checkbox"/> Latex inkjet |
| <input type="checkbox"/> Die cutting | <input checked="" type="checkbox"/> Eco solvent inkjet |
| <input type="checkbox"/> Thermal transfer | <input checked="" type="checkbox"/> Solvent inkjet |
| <input checked="" type="checkbox"/> Screen printing | <input checked="" type="checkbox"/> UV Cured inkjet |

Common Applications

- Vehicle graphics
- Transit markings
- Emergency vehicles
- High visibility signage
- Warning signs

Application

- For processing tips and reference guides please refer to Avery Dennison Instructional Bulletins:
 - 5.01 Substrate requirements for reflective sheeting
 - 5.03 Reflective Films on Stainless steel

Standards

Meets or exceeds the following standards:

- L-S-300C, Table II Reflectivity I
- ASTM D-4956-99, Type I
- AS/NZS 1906.1:2007 Class 2

Uses

Avery Dennison MPI 6200 Premium Reflective is an inkjet printable white reflective media specifically designed for high visibility applications. Ideal for vehicle graphics, emergency vehicles and warning signs where conformability, durability and superior outdoor performance is required.

Physical characteristics

General

Caliper, facefilm	ISO 534	140 micron
Caliper, facefilm & adhesive	ISO 534	165 micron
Dimensional stability		0.4 mm max
Tensile strength	DIN 53455	***
Elongation	DIN 53455	70% minimum
Gloss	Hunter Gloss @ 60	90
Adhesion, initial	ASTM D1000, Automotive Paint	315 N/m
Adhesion, ultimate	ASTM D1000, Automotive Paint	700 N/m
Typical coefficient of retro-reflection	ASTM E810 at -4° EA/0.2° OA	70 cpl
Flammability		Self extinguishing
Shelf life	Stored at 22°C/50-55% RH	2 years
Durability **	Vertical exposure ^	Up to 7 years (unprinted)

^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information

Thermal

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

Notes:

Not recommended for unpainted stainless steel applications. Wet method of application is not recommended on SC MPI 6200 reflective film. Use of wet method of application invalidates standard warranty on this product.

Materials have to be properly dried of solvents before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

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.

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 Dennison® 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 Dennison® 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

Durability is based on exposure conditions in the normal middle European and central North American regions. 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 the southern hemisphere or south in the northern hemisphere; in areas of long high temperature exposure such as northern Australia; in industrially polluted areas or high altitudes, exterior performance will be decreased. Please refer to Avery Dennison Instructional Bulletin 1.3 for definitions and reductions based on the 'Zone System'.

*Compatible with most printer and ink combinations. Test prior to use.

***Information unavailable at time of printing.

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 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.

