

Avery® T-6500 Series

High Intensity Prismatic Grade Reflective Sheeting

Features

- Unique prismatic construction provides highest level of reflectivity
- Omni-directional performance ensures consistent reflectivity when installed in any orientation
- Excellent printability, conversion and application characteristics
- High gloss for superior appearance
- Excellent dimensional stability during use
- Excellent outdoor durability
- Excellent adhesion to aluminium
- Available in 7 colours – White, Yellow, Orange, Blue, Green, Red & Brown

Conversion*

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

Application

- Not recommended for direct application to unpainted stainless steel or using wet application method. Designed for flat surfaces only
- For processing tips and reference guides please refer to Avery Instructional Bulletins:
 - 5.01 Substrate requirements for reflective sheeting
 - 5.03 Reflective Films on Stainless steel

Standards

Meets or exceeds the following standards:

- ASTM D 4956, Type III and IV
- AS/NZS 1906.1:2007 Class 1, and Class 1W as set forth in NSW RTA, WA Main Roads and QLD Main Roads Specifications

Uses

Avery T-6500 Series high intensity grade reflective sheeting is a high quality, durable micro-prismatic retro-reflective material. Its unique construction provides an extra high level of reflectivity for demanding traffic control systems. Design specifically for permanent traffic signage on flat surfaces.

Description



Film: 450 micron high gloss retro-reflective acrylic construction sheeting



Adhesive: Permanent pressure-sensitive (Class 1)



Backing: Film



Outdoor life:** Up to 10 years



Colours: 7 standard

Common Applications

- Traffic signage
- Directional signage
- Warning signs

Reflective Films

Product Data Sheets



Physical characteristics

General

Calliper, face film & adhesive	ISO 534	(432 micron to 457 micron)
Gloss	ISO 2813, 20°	***
Adhesion, ultimate	AS/NZS 1906.1:2007	Complies
Shelf life	Stored at 22° C/50-55 % RH	1 year
Durability ** (Vertical exposure)	Orange	3 years
	All other colours	10 years

Thermal

Application temperature	Applied with a squeeze roll applicator	Minimum: + 18°C
Temperature range		- 40°C to + 82°C

Photometric Performance

Class 1 values per AS/NZS 1906.1:2007. Minimum Coefficient of Retroreflection (R_a) (cd / lx /m²)

Observation Angle α°	Entrance Angle β°	White T-6500	Yellow T-6501	Red T-6508	Green T-6527	Blue T-6505	Brown T-6509	Orange T-6504
0.2°	4°	380	265	75	38	19	19	150
	30°	225	155	45	22	11	11	90
0.5°	4°	275	190	55	27	14	14	110
	30°	115	80	22	11	6	6	45
1.0°	4°	55	38	11	5	3	4	22
	30°	30	21	6	3	*	*	12

* Values at these angles are less than 2 cd.lx⁻¹.m⁻² #Min CIL /m² values (cd.lx⁻¹.m⁻²)

Other Tests

Meets all other requirements as per AS / NZS 1906.1:2007 including Shrinkage, Flexibility, Liner removal, Impact resistance, Specular gloss & Outdoor weathering

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:
As per AS/NZS 1906.1:2007.

Adhesion:
As per AS/NZS 1906.1:2007.

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.

Solvent Resistance:
As per AS/NZS 1906.1:2007.

Corrosion Resistance:
As per AS/NZS 1906.1:2007.