

Avery® 2010 Transparent Stoneguard

Features

- Outstanding durability and outdoor performance
- Dimensionally stable backing for easy conversion
- Excellent dimensional stability during use
- Excellent UV light, humidity and salt spray resistance

Conversion

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

Uses

Avery 2010 Transparent Stoneguard has been specially developed for over-lacquer application in stone chip and corrosion-sensitive areas.

Description



Film: 325 micron, modified PVC



Adhesive: High performance, acrylic based, special automotive adhesive



Backing: One side coated Kraft paper, 140gsm



Outdoor life: Meet automotive specifications

Common Applications

- Automotive OEM

Physical characteristics

General

Caliper, facefilm	ASTM D1000	325 micron
Caliper, adhesive	DIN 53455	50 micron
Tensile strength	ASTM D882	>50,000 N/m
Elongation at break	ASTM D882	>250%
Mill spec. shrinkage		<0.3%
Adhesive properties		
Peel adhesion after		
30 minutes	ASTM D1000	>500N/m
24 hrs.		>720N/m
1 week 70°C		>720N/m ^{[1][2]}
250hrs. 40°C, 98% R.H.		>720N/m ^{[1][2]}
250hrs. water immersion		>720N/m ^{[1][2]}
Temp cycle test (10X)		>720N/m ^{[1][2][5]}
Waxing / de-waxing		>720N/m ^{[1][2][4]}
^[1] Test initiated after 48hrs dwell		
^[2] No significant change in colour, gloss or dimensions		
^[3] 1 cycle: 3 hrs. 70°C + 1 hr. 23°C + 3 hrs. -40°C + 1 hr. 23°C + 16 hrs. 40°C / 98% R.H.		
^[4] Sample is waxed with automotive grade wax. After 48 hrs. the wax is removed by immersion for 5-10 min. in turpentine. The surface has to be cleaned with a cloth or tissue		
Durability **		
Atlas Weather-o-Meter	1600hrs: SAE J 1960 Xenon Arc	Pass ^[5]
1 yr Florida	5° South	Pass ^[5]
Abrasion		Pass ^[5]
Cleanability		Pass ^[5]
Gravel-o-meter	SAE J 400	Pass ^[5]
Salt spray	240 hrs.	Pass ^[5]
Fuel resistance	Drip test	Pass ^[5]
^[5] No significant change in appearance		

Thermal

Temperature range	30 min. exposure at 120 °C	No significant change in colour, gloss or dimensions
	3 weeks exposure at 80°C	

Test Methods

Shrinkage:

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 1 week 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® 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

Durability is based on exposure conditions in the Asia Pacific region. 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.

***Information unavailable at time of printing.