

Avery Dennison

StoneShield™



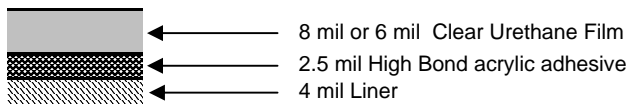
PRODUCT BULLETIN

General Description

Avery Dennison StoneShield urethane films are designed as a stone impingement product for automotive finishes, protecting the paint from the harmful effects of stone chips and abrasion. StoneShield is noted for its extreme ease of installation, superior clarity, and high gloss. Approved and used by Automotive OEM's, these flexible films provide good resistance to the damaging effects of U.V., while allowing the brilliance of the automotive finish to come through.

Product Construction

StoneShield is available in two film thicknesses, (8 mil film, and 6 mil film).



Performance Properties

	8 Mil	6 mil
Tensile Strength (psi)	9235	9643
Elongation	441%	409%

Peel Adhesion 180 degree

30 minute @ 23° C	3.5 lb/in	3.6 lb/in
72 hours @ 23° C	4.4 lb/in	4.7 lb/in
250 hours @ 79° C	5.3 lb/in	5.5 lb/in
Thermal Cycle	5.0 lb/in	5.0 lb/in

Resistance Properties per GM6254M

Acid Resistance	Pass	Pass
Isopropyl Alcohol	Pass	Pass
VM & P	Pass	Pass
Unleaded Gasoline (Gasoline Dip)	Pass	Pass
Environmental Cycle	Pass	Pass
Gravelometer	Pass	Pass
Shrinkage	Pass	Pass
QUV - 210 Cycles - ASTM G53	Pass	Pass
Xenon Arc Weatherometer 1250 KJ/m ²	Pass	Pass
Florida - 350,000 Langley's 45° south facing	Pass	Pass
Arizona- 350,000 Langley's 5° south facing	Pass	Pass

Shelf Life

Avery Dennison recommends that StoneShield be stored at 50°F-90°F, and 40% - 60% RH. StoneShield should be used within one year of purchase.

Application

StoneShield is intended for use on any fully cured OEM paint surface. Professional application using the wet method is suggested. Application of StoneShield on a repainted surface should only be installed if the surface has been prepared and painted by a professional according to OEM recommendations, and a complete cure and bond of the paint has occurred.

Maintenance and Removal

For maximum performance of StoneShield, it is recommended that frequent washings, and care consistent with the automobile manufacturers recommendations for the exterior surfaces of the vehicle be used. An application of a high quality automotive wax after installation and at recommended intervals will help retain the lustre and performance of the product.

Avery Dennison StoneShield can be removed from any OEM paint surface by first softening the film and adhesive using a hair dryer or heat gun, and pulling the film off at approx. 90° angle. If any sections are known to have been repainted, extreme care should be taken on those sections during removal, assuring that complete warming of the the surface has been fully achieved, and removal of film should be pulled off slowly, while continuously heating the film at the peel point during the removal.

Warranty

Avery Dennison's StoneShield product is warranted to be free of defects in manufacturing and workmanship, and will resist yellowing and cracking resulting from U.V. exposure for up to 7 years. Limitation of remedies and liabilities are solely restricted to replacement of the defective film.

Important Notice

All statements and technical information and recommendations are based upon tests believed to be reliable. The values are intended only as a source of information. They are given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of this material for his/her specific purpose. (Data represents averages and is not intended for use as a specification.)