

Avery Dennison® VisiFlex™ V-8000 Chevron Series

High Visibility Reflective Film

ISSUED: AUG 2025*

*Replaces all previously issued bulletins

Overview

Avery Dennison® V-8000 Chevron series is based on the V-8000 High Visibility Reflective Film Series. Conditions on the roads can sometimes endanger the lives of people working in public services, including fire fighters, police, emergency response personnel, and road safety/construction workers.

Effective hazard markings improve the day and nighttime visibility. The high performance of micro-prismatic reflective materials ensures that emergency vehicles stand out to passing motorists day and night. The sheeting offers durable, vibrant daytime colors. At night, its bold, high-quality microprismatic retroreflective elements efficiently return light at a wide range of angles. The single layer construction simplifies application, and eliminates the requirement for edge sealing.

A vivid fluorescent yellow/red improves the day-time visibility of emergency vehicles in unfavourable weather conditions, giving drivers time to respond to hazards ahead.

Availability

Series/Color	Durability*
Chevron White/Red	7
Chevron FYG/Red	5

*unprinted⁽¹⁾

Features

- Single layer solid metallic construction that does not require edge sealing: resists dirt and water penetration, dents and reflectivity loss
- Easy Apply™ liner for ease of application
- Easy to handle and apply, conforms to simple curves
- Performs well facing any direction creating high uniform brightness at night
- Withstands normal vehicle maintenance

Performance

Global	ASTM D8514	Europe	Class RA2
France	TPESC -B	Germany	DIN30710, DIN65720, DIN 6171

Avery Dennison recommends the user obtain the current requirements from their local governing agency to ensure product conformance and work with your local sales rep to determine the correct item to purchase.

Characteristics

Construction	Vinyl Retroreflective Film with microprisms partly screen printed with a permanent pressure-sensitive adhesive protected with Easy Apply™ liner
Typical Film Caliper	White: 15-17 mills (381-432 µm) FYG: 20-25 mils (508-635 µm)
Application Surface	Metal & Painted Metal; Flat, Simple Curves (not for use on stainless steel or rivets)
Min. Application Temperature	60° F (16° C)
Service Temperature	-10°F to +150°F (-23°C to + 65°C)
Shelf-life	1 year from the date of purchase when stored at 65°–75°F (18°–24°C) 50% ± 5% R.H.



Avery Dennison Reflective Solutions
7542 North Natchez Ave.
Niles, IL 60714
Phone: 877-214-0909
reflective.orders@averydennison.com
www.reflectives.averydennison.com

Product Data Bulletin
Page 1 of 3

Table C - Other Testing

Test	Requirement	V-8000 Chevron Typical Values
Dimensional Stability	Less than 1/8" change on 9x9 panel	0.8 mm max
Chemical Resistance LS300C Immersion in Kerosene and Turpentine for 10 minutes Immersion in Toluene, Xylene, and Methyl Alcohol for 1 minute	No softening, dulling, color change, or adhesion loss	Pass

NOTE: Materials have to be properly dried before further processing, for example laminating, varnishing or application. The residual solvents could change the products' specific features. For good print and converting results we recommend to let the rolls acclimatize in the print/lamination room at least 24h before printing or converting. Too much temperature or humidity deviation between material and room climate can cause layflatness and/or printability issues. Generally, constant material storage conditions of ideally 20°C (+/-2°C) /50% RH (+/- 5%), without too big climate deviations, will support a more robust and stable printing/converting process

Application

Avery Dennison Chevron White/Red

Used on vehicles with special traffic rights such as construction fleets or maintenance and cleaning vehicles. Avery Dennison Chevron White/Red can be used for this marking and was produced in accordance to DIN 30710, DIN 67520, DIN 6171 and TPESC-B (Certificates available upon request).

Avery Dennison Chevron FYG/Red

First response vehicles can be marked in accordance to the French regulation TPESC-B (Certificates available upon request) with fluorescent yellow green/red chevrons.

Recommendations for use

Medium to long term fleet marking. Application on metal and painted metal as well as on flat, simple curves. This does not include rivets.

Conversion

Avery Dennison® Chevron V8000 Reflective films can be converted using a wide variety of conversion techniques including steel rule die-cutting, thermal die-cutting, flatbed Sign-cut or Drum Roller sign-cut. Always test suitability of Chevron V8000 prior to use.

Substrates

The application of Avery Dennison V-8000 is limited to properly prepared metal and painted metal substrates. Users are urged to carefully evaluate, under actual use conditions, any film application to other substrates. For painted surfaces follow manufacturer's recommendations for drying and curing. Failure of film caused by other substrates, materials, contamination, or improper surface preparation is not the responsibility of Avery Dennison.

Instructional Bulletins

Please refer to Instructional Bulletins which detail proper handling, storage, and converting of Avery Dennison retroreflective films, overlays, inks, and application tapes. Instructional Bulletins may be found in the Customer Tools section of our [website](#).

Warranty

WARRANTY

This Warranty applies to the Product listed in this Data Sheet. All statements, technical information (including physical and chemical characteristics) and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold subject to the Purchaser's assent and agreement that Purchaser is responsible for, and has independently determined, the suitability of such products for its purposes or its customer's purposes. Avery Dennison reflective products are warranted to be free from defects in material and workmanship for one (1) year from the date of purchase, unless stated otherwise in the applicable product data sheet. Such time periods are subject in either case to the proper storing and application of said product, and the failure to properly store or apply the product, including without limitation the failure to follow any applicable Instructional Bulletin, negates any warranty. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited exclusively to: (a) repair or replacement of defective product without charge at Avery Dennison's plant or at the location of the product (at Avery Dennison's election), or (b) in the event repair or replacement are not commercially practical, a credit amount up to the price of the product taking into account the defect in the product in Avery Dennison's sole discretion.

(1) The durability is based on middle European exposure conditions. The durability of fluorescent yellow-green and fluorescent orange is based on northern Europe performance. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.



CONDITIONS

This warranty shall be effective only if all of the following conditions are met: Fabrication and/or installation must occur within one (1) year from the date of purchase. The failure must have resulted solely from a manufacturing defect or deterioration of the Product due to natural causes under the Performance Warranty. Without limiting the generality of the foregoing, there is no warranty for the failure of the sheeting due to improper sign fabrication, improper storage, handling, installation, maintenance, failure of the sign substrate, vandalism or mischief. Slight color fading, cracking, chalking, edge lifting, or slight reduction in gloss or reflectivity will not materially detract from appearance and does not constitute a breach of warranty. Avery Dennison has published instructional bulletins pertaining to the storage, handling, and cleaning of Product, approved substrates, and application procedures (collectively, the "Procedures"). The Product must have been processed and applied to blank, clean material in accordance with the Procedures, as such may be amended from time to time. Avery Dennison reserves the right to reject any warranty claim where the fabricator or installer cannot satisfactorily prove or demonstrate that the Avery Dennison Procedures were utilized. The date of installation, warranty registration, and claim procedures established by Avery Dennison must be followed, and failure to follow such procedures shall void this warranty. Replacement Product carries only the unexpired warranty portion of the Product it replaces. The Product must be properly stored and applied within the shelf-life as stated in the applicable Avery Dennison Product Data Sheet including adhesive and other material product data sheets.

ADDITIONAL LIMITATIONS

Unintended Use: This warranty only applies to Product that is used by professional converters and installers for the defined end uses and in the combinations described in the applicable Avery Dennison Product Data Sheets and Instructional Bulletins. For any other use, the user is responsible for determining the suitability of the Product, and for any and all risk or liability associated with that use or application, and the user agrees to indemnify, defend and hold harmless Avery Dennison for any claims, losses, damages, judgments, expenses and/or expenses, including attorneys fees, resulting from such use or application. This warranty is expressly conditioned on the Product being processed by professional converters or installers in accordance with the Avery Dennison recommended written processing instructions, and being applied to properly prepared surfaces and cleaned and maintained in accordance with recommended Avery Dennison procedures. It is the converters, installers or other users responsibility to perform incoming raw material quality inspections, to assure proper surface preparation and that approved application procedures are followed, to retain converted samples, and to immediately cease using and notify Avery Dennison and/or its authorized agent or distributor of any Product, Materials and/or finished Product discovered to be (or reasonably capable of being discovered to be) defective.

Misuse and Force Majeure: Avery Dennison has no obligations or liability under this warranty with respect to Product that has been altered, modified, damaged, misused, abused, subject to accident, neglected or otherwise mishandled or improperly processed or installed. Product is not warranted against premature failure caused by chemical, environmental or mechanical means such as, but not limited to, vandalism, cleaning solutions, paints, solvents, moisture, temperature, mechanical washing equipment, engine fuel spills, engine exhaust, steam, organic solvents or other spilled chemicals pollutants, including industrial and volcanic ash. Damage from fire, structural failure, lightning, accidents, and other force majeure events are not covered by this warranty.

Third Party Product: Avery Dennison assumes no responsibility for any injury, loss or damage arising out of the use of a product that is not of our manufacture. Where installer or converter uses or reference is made to a commercially available product, made by another manufacturer, it shall be the responsibility of the user, installer or converter to ascertain the precautionary measures for its use outlined by the manufacturer.

The remedies provided under this warranty are exclusive. In no event shall Avery Dennison be responsible for any direct, indirect, incidental or consequential damages or specific relief whether foreseeable or not, caused by defects in such Product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence. In no event shall Avery Dennison's liability hereunder exceed the remedies specifically set forth in this warranty. Avery Dennison's liability shall be limited, at Avery Dennison's option, to the purchase price, replacement of the defective Product and in some cases when authorized by Avery Dennison the repair and replacement of the defective Product. **THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHERS. ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.**

DEFINITIONS

Durability: means that the Product in a finished graphic, panel or sign situated outdoors, subject to the limitations herein and Avery Dennison Product Data Sheets and Instructional Bulletins, and applied to recommended surfaces, will not deteriorate excessively such that the finished sign, panel or graphic is ineffective for its identification when viewed under normal conditions from the intended viewing distance.

Outdoor Durability: is based on normal middle European and central North American outdoor exposure conditions and application to recommended surfaces. Actual performance life will depend on a variety of factors, including but not limited to substrate preparation, exposure conditions and maintenance of the Product and finished graphic, panel or sign. In case the finished graphics, panel or sign is in areas of high temperatures or humidity, in industrially polluted areas or other areas with air laden particulate matter, and/or in high altitudes, Outdoor Durability may be reduced. Please see your local Avery Dennison representative for changes to warranties based on such localized conditions.

Vertical Exposure: means that the face of the finished graphic is $\pm 10^\circ$ from vertical.

Non-Vertical Exposure: means that the face of the finished graphic is greater than 10° from vertical and greater than 5° from horizontal. Retroreflective films are not warranted for this exposure. Flat surfaces: means a two dimensional flat surface without protruding objects.

Weathering Effects: Some degradation of Product performance over time is considered normal wear. Slight color fading, chalking, edge lifting, or slight reduction in gloss or reflectivity due to normal wear exposure and other natural weathering, environmental or other conditions or damage caused by tornadoes, hurricanes, wind, excessive ice buildup or extraordinary frozen particulate conditions, large hailstones or other acts of God, do not constitute a breach of warranty or give rise to any liability by Avery Dennison.

Adhesion to Application Surfaces: This warranty does not cover the Product if the application surface is not properly prepared; nor does the warranty cover the Product or damage to the substrate because the layers of the substrate separate due to a lower bond between those layers than the bond between the Product and the top layer of the substrate, or surfaces which subsequently crack, peel, outgas, or become damaged beneath the Product

INDEPENDENT TESTING REQUIRED All statements, technical information and recommendations about Avery Dennison products are based upon tests and information believed to be reliable but do not constitute a guarantee or warranty of any kind. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its intended and other purposes.

