Issued: January 2015

Avery Dennison® V-5720 Series Conspicuity Tape is designed for trucks, trailers, and other vehicles for easy nighttime vehicle recognition and increased road safety. It is a high quality, durable, microprismatic retroreflective material with a pressure sensitive adhesive. The solid construction does not require edge sealing.

Many accidents are avoidable if the driver of the other vehicle had only been able to detect the truck. Reflective contour markings on trucks make detection easy, giving drivers time to see a vehicle, react and avoid a collision. In fact, NHTSA studies demonstrate 41 percent reduction in side and rear trailer impact when using conspicuity tape. Avery Dennison V-5720 Series Conspicuity Tape provides superior reflectivity and may help reduce accidents, prevent injuries and can decrease related costs such as repairs, insurance expenses and fees.

Performance: DOT-C2 Homologated

Durability: 7 years Vertical exposure only

Orientation: Omni-Directional

Face: Acrylic Retroreflective Film with Microprisms

Adhesive: Permanent Pressure Sensitive

Liner: Polymeric Film

Application Surface: Metal & Painted Metal

Features:

- Typical values are 3 to 4 times higher than required by specifications
- Low temperature adhesive allows for application in cold weather situations
- Solid construction that does not require edge sealing
- Initial repositionability eases application and provides long lasting bond
- Provides exceptional all-distance viewing at dawn, dusk, and night
- Approval marks are protected against abrasion ensuring continual compliance

Finishes:

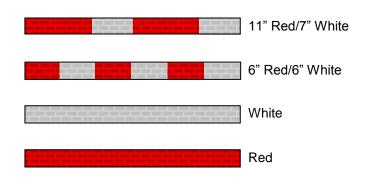
- 2" x 50 yard Rolls
- ⊠ 4" x 50 yard Rolls
- Pre-Cut Length Strips
- Custom Finishes

Applications:

- Trucks & Trailers
- Recreation Vehicles
- Recycling & Waste Vehicles
- Utility & Maintenance Vehicles

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Product Availability:







Adhesive: Permanent

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Retroreflectivity:

V-5720 **exceeds** all minimum coefficients of retroreflection requirements for FMVSS 108, DOT-C2 values as shown in **Table A** by 3 to 4 times.

Table A:

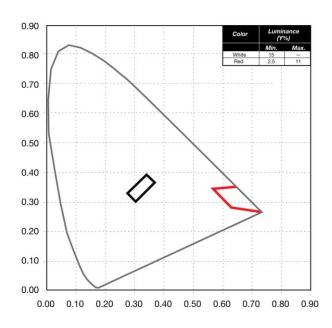
Minimum Coefficient of Retroreflection $(R_A)^1$

Observation Angle	Entrance Angle	Minimum			
		White	Red		
0.2°	-4°	250	60		
	30°	250	60		
	45°	60	15		
0.5°	-4°	65	15		
	30°	65	15		
	45°	15	4		

Colors and Specification Limits:

V-5720 **meets** the color and minimum luminance requirements² for FMVSS 108, DOT-C2, and ASTM D4956 Type V shown in **Figure A.**

Figure A: CIE Color Diagram



Product Data Sheet Page 2 of 4 Reflective Solutions 7542 North Natchez Ave. Niles, IL 60714 Avery Dennison V-5720 7 Year meets the current applicable requirements for the following specifications:

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NHTSA FMVSS 108				
(49 CFR 571)	US			
DOT-C2				
ASTM D4956	North America			

Avery Dennison suggests you obtain the current requirements from your local agency and ensure product conformance with such requirements. Your Avery Dennison Representative can assist you in this regard.

Avery Dennison V-5720 7 Year Conspicuity Tape contains the red DOT-C2 homologation seen in Figure B

Figure B:



 ${}^{1}R_{A} =$ candelas per lux per square meter (cd/lux/m²)

²The four pairs of chromaticity coordinates and luminance range in **Figure A** determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System when measured with CIE Illuminant D65, 45[°]/0[°] geometry, and CIE 2[°] standard observer.



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Characteristics:

Property	Requirement		Series V-5720 Typical Values
Shelf-Life	NA		1 year from date of purchase when stored at the following conditions; 65° -75°F (18°-24°C) and $50\% \pm 5\%$ R.H.
Typical Film Caliper (Does not include liner)	NA		9.5 – 11.5 mils (241 – 292 μm)
Min. Application Temperature	NA		+32° F (0° C)
Service Temperature	NA		-22°F to +158°F (-30°C to + 70°C)
Gloss ASTM D523 at 85°	NA		100
Peel Adhesion PSTC-2 12in/min, 90° peel angle	Substrate	Degreased Aluminum	5.8 lb/in (1.04 kg/cm)
		Prepainted Panel	4.5 lb/in (0.80 kg/cm)
		Stainless Steel	3.8 lb/in (0.68 kg/cm)
Dimensional Stability* ASTM D4956	Less than 1/8" change on 9x9 panel		Pass
Flexibility* ASTM D4956 Wrap around 0.125" mandrel @ 32°F (0°C)	No Cracking		Pass
High Pressure Wash Test 45' angle, 1200 psi, 8 inch distance	No delamination, edge lift, cracking, or water penetration		Pass
Adhesion* ASTM D4956 0.79kg 90° hanging weight	Less than 2" movement		Pass
Chemical Resistance SAE J 1967 Immersion in diesel fuel, xylene/mineral spirits mixture, TSP solution	No softening, dulling, color change, or adhesion loss		Pass
Corrosion Resistance ASTM B-117 5% salt spray for 1000 hours	No white corrosion, red rust, discoloration, delamination, flaking, checking, cracking, or blistering		Pass
Impact Resistance Room Temp* ASTM D4956 Failing dart with 10 in-Ib force and 5/8 inch tip at room temperature	No damage outside impact area		Pass
Impact Resistance Cold Temp ASTM D4956 Failing dart with 10 in-Ib force and 5/8" tip at -20°C	No damage outside impact area		Pass

*FMVSS 108 and ASTM D4956 Requirement

WARRANTY:

WARKANIY: Avery Dennison products are warranted to be free from defects in material and workmanship for one year from date of purchase. 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 to repair or replacement of defective Product without charge at Avery Dennison's plant or at the location of Product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the Product.

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 fabrication, improper storage, handling, installation, maintenance, failure of the substrate, vandalism or mischief. Slight color fading, cracking, chalking, edge lifting, or slight reduction in gloss or reflectivity will not materially detrect from anovergrance and does ont constitute a breach of 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 voit this warranty. Replacement Product carries only the unexpired warranty protion 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 achesive and other material product data sheets.

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.

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 OF MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFCICED OF AUTOY DUNINGON OFFICER OF AVERY DENNISON.



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Application Information:

The following Avery Dennison literature will provide information to the user for proper application, storage, and other requirements. Find the latest information on the Avery Dennison website, www.reflectives.averydennison.com. We encourage you to check our website periodically for updates.

Instructional Bulletins:

Substrate Requirements	#8.01
Application & Care: Conspicuity Tape	#8.14

Where to Apply:

Please check for any changes to local, state or Federal regulations that are relevant to Conspicuity Tape markings. For large trucks and trailers exemplary standards include section S5.7.1.4 from Standard No. 108 of 49 CFR Part 571. Per these requirements, conspicuity tape must be cut to allow a 75mm (about 3") space from the lights and reflectors.

Maintenance:

Regular cleaning is recommended to ensure maximum performance for vehicle identification day and night. The following cleaning methods are recommended.

- A.) By hand with a sponge, cloth, or other non-abrasive media using mild detergent and water.
- B.) Pressure washed according to the following parameters:
 - Maximum Pressure: 1200 psi
 - Maximum wash temperature: 140°F
 - Water jets must be a minimum of 12" from the Conspicuity Tape
 - Spray water jets at an angle of 90° (±45°) from the surface
 - Cleaning solution should have a pH of 3-11. Follow dilution ratios of cleaning solutions per manufacturer recommendations.

Substrates:

The application of Avery Dennison V-5720 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. See Instruction Bulletin #8.01 for full details on substrate requirements.

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. Iosses, damanes, judgments, expenses and/or expenses. agrees to incerning, been and not names a wey beinson to 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 executors, installers on the processibility to conferm incoming accorance 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 combine divine dimensioned to but detection).

Materials and/or minished 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 improperty processed or installed. Product is of uncontent operation of button operation but operations. otherwise mishandled or impropenty 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, lighting accidents and other force majeure events are not covered by this

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. 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.

DEFINITIONS:

Durability: means that the Product used 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

Innshed sign, panel or graphic is interfective 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 conditione demonstratement of the Dradut and finished europies. conditions and maintenance of the Product and finished graphic, panel or conditions and maintenance of the Product and ininshed graphic, 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 ±10°

Vertical Exposure: means that the face of the finished graphic is 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

oojects. 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 and exposure and other natural weathering, environmental or or conditions or damage caused by tomadoes, hurricanes, wind, exces ice buildup or extraordinary frozen particulate conditions, large stones or other acts of God, do not constitute a breach of warrant diverged extraordinary listibility by a constitute a breach of warrant or other give rise to any liability by Avery Dennison. Printing, Curing and Ink Defects: Ink contaminations, failures or other

Printing, Curing and ink Derects: ink contaminations, railines of other defects, or other failures due to improper printing conditions or settings including, but not limited to, unsuitable color calibration, incorrect ICC color profile or incompatible printing, do not constitute a breach of warranty. Product failure caused by ink over-saturation, excessive or under curing, failure of ink to render desired colors on Product, or other treatment or processing errors are not warranted. 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

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