

CURVE A5DOT Tank Trailer Curved Metalized Microprismatic DOT Reflective Tape Data Sheet

Heskins conspicuity tape is designed for trucks, trailers and other vehicles for easy night-time vehicle recognition and increased road safety. It is a high quality, durable, micro prismatic retroreflective material with a pressure sensitive adhesive. The single layer construction does not require edge sealing.

Performance: DOT-C2 Certified

Durability: 5 years vertical exposure only

Orientation: omni-directional

Face: acrylic retroreflective film with microprisms

Adhesive: permanent pressure sensitive

Liner: polymeric film

Application surface: metal and painted metal

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 demonstrated 41% reduction in side and rear trailer impact when using conspicuity tape. Heskins A5DOT conspicuity tape provides superior reflectivity and may help reduce accidents, prevent injuries and can decrease related costs such as repairs, insurance expenses and fees.

Features:

- Typical values are 3 to 4 times higher than required by specifications.
- Single layer construction 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 continuous compliance.
- Custom logos available to build brand identity and personalize your fleet.

Application:

- Trucks and trailers
- Recreation vehicles
- Recycling and waste vehicles
- Utility and maintenance vehicles



Finishes:

- 2" x 50 yard rolls

Product availability:

- 11" Red/ 7" white
- 6" Red/ 6" white

Retroreflectivity:

A5DOT 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

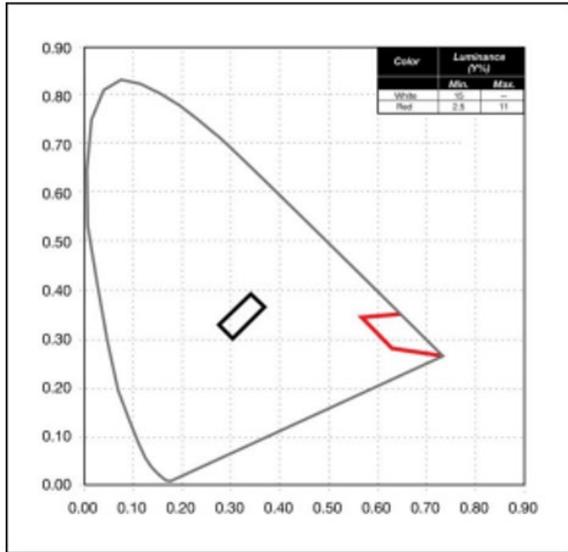
Item	Observation Angles	Entrance angles	R
White	0.2in	-4	250
		30	250
		40	60
White	0.49in	-4	65
		30	65
		40	15
Red	0.2in	-4	60
		30	60
		40	15
Red	0.49in	-4	10
		30	10
		40	4

Colors and specification limits:

A5DOT meets the color and minimum luminance requirements for FMVSS 108, DOT-C2, and ASTM D4956 type V shown in **figure A**.

Figure A: CIE Color Diagram





IRA = candelas per foot-candle per square foot (cd/ft²)² The 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.

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

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

Heskins A5DOT 5 year conspicuity tape contains the white DOT -C2 certificate

Property	FMVSS 108 Requirement	DOT C-2 conspicuity tape
Thickness	NA	Sealing Type – 0.0159~0.0175in Metallizing Type – 0.0118~0.0134in
Gloss	NA	100
Dimensional stability	Less than 0.13in change on 9in x 9in panel	Pass
Flexibility	NO Cracking	Pass
Peel adhesion, lbf/in	Cracking Cracking	180° FINAT FTM I
Tensile strength, lbf/in	172.431	Lloyd, 11.24 lbf load cell



Min. Application temperature	NA	59°F
High pressure wash test 45° angle, 83bar, 3in distance	NA	Pass
Adhesion 90° hanging weight ASTM D4956	Less than 2in movement	Pass
Peel adhesion 120in/minute, 130° peel angle	NA	Degreased aluminum: 5.255 lb/in
Chemical resistance	NA	Not effected by toluene, #2 diesel fuel, TSP detergent, xylene
Corrosion resistance ASTM B-117 5% Salt spray for 1000 hours	NA	No effect
Impact resistance	No damage outside impact	Pass
Resistance to chemicals (months)	8	PSTC-35
Resistance to motor oil	Excellent	PSTC-35
Life (months) Room temperature 8.2ft – 0.99 lb, 0.645in tip	12 to 24	PSTC-9
Impact resistance Cold temperature 4.9ft -0.99 lb, 0.645in tip at -68°F	No damage outside impact	Pass

**The following Warranty is limited to North America
WARRANTY**

Heskins Limited 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 Heskins 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 defected product without charge at Heskins plant or at the location of product (at Heskins election), or in the event of replacement or repairs is not commercially practical, to Heskins issuing purchaser a credit reasonable in light of the defect in the product.

Heskins Limited further warrants that Heskins A5DOT will retain its effectiveness for its intended use, and will meet the stated minimum values for coefficient of retroreflection (“performance warranty”) as set forth in accordance with the following standards.

SKU (Color)	RAL
H6602R (Red)	3020
H6602Y (Yellow)	1032
H6602W (White)	7004
DOT2_RW66 (Red / White)	3020 / 7004



RA percentage retained above apply to all entrance and observation angles in Table A, and sha;; be measured per ASTM 810.

All measurements shall be made after cleaning according to Heskins procedures.

PERFORMANCE WARRANTY

If within five years from the initial date of installation, the product deteriorates due to natural causes to the extent that: 1) the product fails to retain the minimum reflectivity values warranted for the five year period under the standard in force at the time of installation, or 2) the product is ineffective for its intended purpose when viewed from a moving vehicle under normal daytime or night-time driving conditions, Heskins will furnish a replacement amount of like products at no cost to enable the installed surface to be restored to its original effectiveness.

CONDITIONS

This warranty shall be effective only if all of the following conditions are met: Fabrication and/or installation must occur within one year from the date of purchase. The failure must have resulted solely from 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 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.

Heskins 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. Heskins reserves the right to reject any warranty claim where the fabricator or installer cannot satisfactorily prove or demonstrate that the Heskins procedures were utilized. The date of installation, warranty registration and claim procedures established by Heskins 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 Heskins product data sheet including adhesive and other material product data sheets.

INDEPENDENT TESTING REQUIRED

All statements, technical information and recommendations about Heskins products are based upon tests and information believed to be reliable but do not constitute a guarantee or warranty of any kind. All Heskins 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 OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF HESKINS.

LRV Test Results

SKU (Color)	RAL	Pantone	Av. LRV	Range
H6602R (Red)	3020	187 U	15.2	10.4
H6602Y (Yellow)	1032	7406 U	43.7	12.6
H6602W (White)	7004	422 U	38.9	16.1
DOT2_RW66 (Red / White)	3020 / 7004	187 U / 422 U	15.2 / 38.9	16.1 / 10.4

All the above data is for reference only.

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