

Technical Data Sheet



Reflex Reflective Stick-On Reflectors (RR Series)

Issue Date: OCT 2020

OVERVIEW

Reflex Reflective Stick-On Reflectors are designed to mark obstructions within or adjacent to the road for increased nighttime 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, end is resistant to impact damage.

FEATURES

- Solid construction does not require edge sealing
- Provides exceptional all-distance viewing at dawn, dusk, and night
- Omni - Directional

PERFORMANCE

North America	SAEJ 292, SAEJ 594
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INCOM recommends the user obtain the current requirements from their local governing agency to ensure product conformance.

CHARACTERISTICS

Construction	Acrylic Retroreflective vinyl Film containing microprisms with a permanent pressure-sensitive adhesive protected with polymeric film
Typical Film Caliper	19-22 mils (482-559 μm)
Application Surface	Metal and Painted Metal
Applications	Trucks and Trailers, Recreation Vehicles, Recycling & Waste Vehicles, Utility and Maintenance Vehicles
Min. Application Temperature	50° F (10° C)
Service Temperature	-22°F to +158°F (-30°C to + 70°C)
Shelf-Life	1 year from the date of purchase when stored at 65°–75°F (18°–24°C) 50% \pm 5% R.H..

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TABLE A - Retroreflectivity

Exceeds all minimum coefficients of retroreflection values seen below

Minimum Candlepower per incident footcandle for a reflex reflector per SAEJ594			
Observation Angle	Entrance Angle	Red	Amber
0.2°	0°	11	28
	10° up	9	23
	10° down	9	23
	20° left	7	17.5
	20° right	7	17.5
1.5°	0°	0.90	2.3
	10° up	0.09	0.23
	10° down	0.09	0.23
	20° left	0.08	0.2
	20° right	0.08	0.2

TABLE B - Color and specification limits

Meets the color requirements tested in accordance to SAE J578 test method 4.1.3

Daytime color specification limits								
Colors	1		2		3		4	
	x	y	x	y	x	y	x	y
V-9775 Red	0.670	0.330	0.650	0.330	0.716	0.263	0.736	0.264
V-9776 Amber	0.609	0.390	0.597	0.390	0.545	0.425	0.560	0.440

APPLICATIONS

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

SUBSTRATES

The application of this product 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 INCOM.

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WARRANTY

INCOM 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 INCOM'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 INCOM's plant or at the location of Product (at INCOM's election), or in the event replacement or repairs is not commercially practical, to INCOM's issuing Purchaser a credit reasonable in light of the defect in the Product.

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 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 detract from appearance and does not constitute a breach of warranty. INCOM 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. INCOM reserves the right to reject any warranty claim where the fabricator or installer cannot satisfactorily prove or demonstrate that the INCOM Procedures were utilized. The date of installation, warranty registration, and claim procedures established by INCOM 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 INCOM Product Data Sheet including adhesive and other material product data sheets.

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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 INCOM 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 INCOM 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 INCOM recommended written processing instructions, and being applied to properly prepared surfaces and cleaned and maintained in accordance with recommended INCOM 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 INCOM 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: INCOM 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: INCOM 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 INCOM 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 INCOM's negligence. In no event shall INCOM's liability hereunder exceed the remedies specifically set forth in this warranty. INCOM's liability shall be limited, at INCOM's option, to the purchase price, replacement of the defective Product and in some cases when authorized by INCOM 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 INCOM.**

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DEFINITIONS

Durability: means that the Product in a finished graphic, panel or sign situated outdoors, subject to the limitations herein and INCOM 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 INCOM 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 INCOM.

Printing, Curing and Ink Defects: Ink contaminations, failures or 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

INDEPENDENT TESTING REQUIRED

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