

V-CAN

V-REFLEX™

Reflective Material – Bicolor Segmented Reflective Transfer Film TF-HW506025L-HV Series

V-REFLEX™ Reflective Material–Bicolor Segmented Reflective Transfer Film TF-HW506025L-HV Series includes two different colors, Item#TF-HW506025L-HV1 means Fluorescent Lime yellow + Silver, Item#TF-HW506025L-HV2 refers to Fluorescent Orange-Red + Silver. They are designed for use on high-visibility clothing such as occupational workwear, sport wear, fashion apparel, consumer garments and accessories to enhance the visibility of the wearer during darkness and low light conditions. The silver strip will appear brilliant white, when illuminated by vehicle headlights, even when the wearer is situated at the side of the road.



Product Description:

V-REFLEX™ Reflective Material–Bicolor Segmented Reflective Transfer Film TF-HW506025L-HV series is composed of wide angle, exposed retroreflective lenses bonded with a special polymer layer to a heat activated polyester adhesive. The transfer film is comprised of reflective patterned segments on a plastic liner.

Basic Features:

Material	PES
Type	Left leaning after Heat Transfer Application
Technology	Micro Glass Bead
Color	Fluorescent Lime Yellow + Silver; Fluorescent Orange-red + Silver
Width	5cm
Home Wash	50 cycles @ 60°C per ISO 6330 (Properly transfer to Substrates)
Approved	EN ISO 20471, ANSI-ISEA 107 LEVEL 2

Retroreflective Performance

The coefficient of Retroreflection (R^A , in cd/lux/m²) is measured by methods traceable to either of the following retroreflective intensity testing procedures:

AS™ E809 and E810 (R^A)
CIE 54.2:2001 (R')

V-REFLEX™ Transfer Film		
Transfer Film	Observation Angle	Minimum R_A^1
5.0°	0.2°	330
5.0°	0.33°	250

V-REFLEX™ Reflective Material–Bicolor Segmented Reflective Transfer Film TF-HW506025L-HV Series exceeds the ANSI/ISEA 107-2004 and CAN/CSA Z96-02 minimum Coefficient of Retroreflection for Level 2 retroreflective material.

V-Reflex Reflective Material Co., Ltd

Manufacturing Base
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Application Instructions

Whenever two or more pieces of V-REFLEX™ Reflective Material–Bicolor Segmented Reflective Transfer Film TF-HW506025L-HV series is used together on a single surface or as a set, they should be matched to ensure uniform daytime color and nighttime reflectivity.

Heat Lamination:

The following recommendation is a general guideline for heat press lamination.

Important note:

The proper temperature/ pressure/time conditions must be tested for each fabric to assure adequate adhesion and physical performance. Many fabrics can be used as lamination substrates, however, nylons and fabrics treated with a durable water repellent (DWR) finish are difficult to adhere to and are not recommended.

Work on a flat surface where uniform heat and pressure can be applied. Avoid applying film over seams and stitches. Place film on fabric (substrate) adhesive side down and apply heat and pressure as described below. Allow the application to cool to room temperature before removing the plastic liner. Place application on a flat surface and remove the plastic liner by lifting one corner and pulling at about a 45° angle in a continuous, smooth manner.

V-REFLEX™ Bicolor Segmented Reflective Transfer Film		
Temperature	Dwell Time	Pressure
160°C - 175°C (320°F - 347°F)	10-20 seconds	Firm (30-40 psi line pressure)

Care and Maintenance Instructions

Important: Test each application according to appropriate care instructions required for the finished product. Actual life of V-REFLEX™ Reflective Material–Bicolor Segmented Reflective Transfer Film TF-HW506025L-HV Series will depend on cleaning method and wear conditions. Care label recommendations:

Home Wash Guideline

Wash	Machine wash hot, 60° C (140° F)
Bleach	Only non-chlorine bleach when needed
Dry	Tumble dry low
Iron	Use cool iron, 110° C (230° F)
Dry-clean	25 Cycles per ISO 6330

Storage and Shelf Life

- Store in a cool, dry area and use within one year after date of receipt.
- Store rolls in original shipping cartons.
- Return partially used rolls to the carton or suspend horizontally through the core.
- Cut sheets should be stored flat.

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