



### Product Info

Issued: Sep. 2019 Revision 2.1

Fire Retardance grade cotton fabric based FR-H-0400 series warning reflective fabric trim which is composed of wide angle exposed reflective lens bonded to a 100% cotton fabric, designed for wearers to enhance visibility and reduce risk of being struck by vehicles in nighttime or dark conditions when illuminated by a light source, by returning light back to original source and reaching driver's eye.

RECOMMENDED APPLICATIONS
• Die cutting
• Hand cut
• Guillotined
• Ink printing
• PPE Outdoor

OVERVIEW	
Backing Fabric	100% Cotton
Typical Reflectivity	$\geq 200\text{cd/lx/m}^2$
Original Color	Silver, Fl.yellow, Fl.red
Reflected Color	White, yellow, red
Apply to	Best for light and medium fabrics
Attachment	Sew on by using lockstitch

### CONSTRUCTION

Product Family & Series	Retroreflective Fabric Trim, FR-H-0400 Series
Performance Level	Fire Retardance Grade Silver Light or high light Type Glass Beads Semi-embedded
Original Daytime Color	● ● ●
Product Code	FR-H20-0402, FR-H20-0403, FR-H42-0411, FR-H42-04YSY, FR-H42-04RSR, FR-H42-04YSY-PF.
Construction Materials	100% Cotton Fabric, high index reflectivity glass beads.
Thickness & Weight	Finished Fabric: 0.480-0.520mm, 790-870g/sqm $\pm 10\%$
Size	Miscellaneous Sizes (0.05m*50m, 0.05m*100m, 1m*100m, 1*200m etc.)
Brand/Trademark	Yillumax™

### PHYSICAL PROPERTIES CHARACTERISTICS

Standards or Certifications	Photometric performance: EN ISO 20471, ANSI 107, AS/NZS 1906, CSA-Z96
Okeo-Tex	Yes
Storage Condition, Self-life	Properly stored in a dry(<70% relative humidity) and cool(4°C-28°C) area, use within 12 months after receipt.
Imaging Method	Images may be screen printed on the surface of some of our reflective fabrics. All printing inks' independent testing required to ensure acceptable adhesion, wipe the surface lightly with a soft cloth dampened with isopropyl alcohol may help in adhesion, user assumes responsibility for fitness of inks printing.
Stitching	A double lockstitch with a max 5 stitches/cm is recommended, for substrates up to 250 g/m <sup>2</sup> needle size NM80-90 is recommended, for substrates greater than 250 g/m <sup>2</sup> a larger needle size would be required, a Teflon™ coated needle and pressure foot is recommended to enable a smooth fabric transition, thread tension should be kept to a minimum.
Home Wash	50 times (Don't presoak, recommended wash temperature: 30-60°C, maximum wash time at highest wash temperature 12 mins, maximum program time 50 mins, wash powders for delicate and colored fabrics are recommended, do not bleach, tumble dry low, cool or medium heat iron setting (do not exceed 150°C) )
Dry Wash	$\geq 5$ times
Industrial Wash	N/A
Applications	Safety garments, nonrated safety vests, athletic and casual wear, t-shirts, sweatshirts, outerwear
Applied Substrates	Polyester or polyester mix products either woven or knitted light and medium weight fabrics, stretchy fabrics (Such as Lycra or fabric contain Lycra) not recommended, all substrate materials should be chosen based on suitability for intended use and laundry properties.
Application Instructions	See Product Bulletin

The above information on physical and chemical characteristics is based upon tests believed to be reliable. The values are intended only as a source of information. They are given without guarantee and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of this material for his/her specific purpose. (Data represents averages and is not intended for use as a manual.)

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Customer Service + 86 18861102251 or visit our websites: