



VizLite[™] 205H/CUT Industrial Wash Silver Reflective Transfer Film

Product Information

VizLite™ 205H/CUT Industrial Wash Silver Reflective Transfer Film is intended for use in High Visibility Warning clothing such as EN ISO 20471:2013 and ANSI Jackets and Waistcoats, that require higher laundry specification, in particular industrial washing, to enhance visibility in low light and night time conditions.

VizLite[™] 205H/CUT Industrial Wash is a segmented tape making it flexible and breathable.

Design Features

The film is constructed of a layer of microscopic retro reflective glass beads bonded onto a Polymer layer, to which a heat activated adhesive is applied.

VizLite™ 205H/CUT Industrial Wash Silver Reflective Transfer Film comes with a PET protective film on the reflective side.

When a beam of light from an oncoming vehicle meets the material, the light reflects back to the light source and enhances the visibility of the wearer to the vehicle driver

Product Performance and Certification

VizLite[™] 205H/CUT Industrial Wash Silver Reflective Transfer Film is certified by Centro Tessile Cotoniero e Abbigliamento Laboratory in Italy to the following standards.

EN ISO 20471:2013 (High Visibility Warning Clothing)

Retro-reflective Performance

VizLite[™] 205H/CUT Industrial Wash Silver Reflective Transfer Film;

- Meets and exceeds the levels of brightness required under EN ISO 20471:2013
- Is non-orientation sensitive
- Offers excellent feel and smoothness
- Is washable at 60°C Domestic wash up to 100 wash cycles with 100 Tumble Dry cycles at 60°C
- Can be dry cleaned up to 50 cycles with perchloroethylene

 30 Cycles of Industrial Wash at 75°C with industrial tumble drying at 60°C

Ecological Performance

VizLite™ 205H/CUT Industrial Wash has been certified by Shirley Technologies in England to STANDARD 100 by OEKO-TEX®, product class I. Having shown that the above-mentioned goods meet the human-ecological requirements of the standard presently established for products with direct contact with skin.

The certified articles fulfil the requirements of Annexe XVII of REACH (incl. the use of azo-dyes, nickel, etc.) as well as the American requirement regarding total content of lead in children's articles (CPSIA)

Product Application

Retro reflective warning garments are mainly used in environments where the wearer is working alongside vehicles. These garments improve visibility of the wearer and thus reduce the risk of being struck by a vehicle e.g. highways, railway lines, airports, warehouses, dockyards.

VizLite[™] 205H/CUT Industrial Wash is recommended for use in garments used in heavy wear environments that require industrial laundry.

Cutting

Cuts should be made from the non-reflective surface and fabric should not be stacked more than 5 cm in height. Fabric is suitable for cutting by,

- Hand (using very sharp cutting tools)
- Guillotine

Substrates

The following should be taken into account when applying VizLite™ 205H/CUT Industrial Wash Reflective Transfer Film to the substrates listed below,

- On Nylon and other Polyimide substrates, heat application is not suitable and results are poor.
- To avoid damage to the surface of coated substrates the lamination temperature may need adjusting to a lower setting.

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• The use of substrates which have had a silicon, fluorocarbon or flame-retardant finish may result in poor adhesion.

Lamination

The following recommendations for lamination are for guidance only. Other methods can also be used such as heat fusing, High Frequency welding etc. Converters should determine which process best suits their application.

For continual heat press e.g. Reliant heat press,

- Nip roller pressure should be even
- Nip roller pressure ideally set at 40-50psi (approx. 4/5 bar)
- Machine speed should be set so that the panel is in the tunnel for approx. 12 seconds
- Temperature should be set at 150°C-160° C
- Temperature inside of the tunnel should be checked using a temperature strip.
- Place the VizLite[™] 20 H/CUT Reflective Transfer Film with adhesive side down on the substrate.
- Do not apply Transfer film over seams or stitching.
- Delicate fabrics should be protected by placing a siliconised sheet or cloth cover over the film and fabric during lamination.
- The PET Liner should be split when cold by gently lifting from one corner.

For application using a heat press such as a Insta machine.

Dwell Time: 10-12 seconds

Pressure: 50-70 PSI / 2-3Kg per cm2

Temperature: 150-165°C

For more details, please see the heat application settings sheet.

Storage and shipping

- Rolls should be stored in the packaging they are supplied in.
- Cut pieces should be stored flat
- Opened rolls should either be stored in their original packaging or suspended by the use of a rod through the middle of the roll.

- VizLiteTM 205H/CUT Industrial Wash should be stored in an area that is cool, dry and with low humidity.
- Precautions should be taken to protect the material from coming into contact with perspiration, strong acids, or compounds containing high levels of sulphur or chlorine.
 Contamination by these substances may affect the aesthetic appearance of the VizLite[™] 205H/CUT Industrial Wash.
- During Transportation and Shipping it is best to keep an ambient condition.

Handling

- VizLiteTM 205H/CUT Industrial Wash should be handled carefully in hot and humid conditions.
- The area in which the materials are handled may need the need of cooling or dehumidifying equipment to keep the area cool and dry.
- Avoid the contamination of the product with dirt, grease or solvents as this could produce staining that will affect the retro-reflective qualities of the fabric.

Wash and Care

VizLite[™] 205H/CUT Industrial Wash is designed to be industrially washed at 75°C up to a minimum 30 cycles before the retro-reflective qualities are affected.

Domestic washing

When domestic washing instructions should be closely followed;

- Do not pre-soak
- Do not use a pre-wash program
- Recommended wash program is for coloured clothing wash
- Do not wash at a higher temperature than 60°C
- Recommended wash Temperature is 40-60°C
- Maximum Program time 50 minutes
- Maximum wash time at highest wash temperature 12 minutes
- Domestic washing powders for delicate and coloured fabrics are recommended

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Stain removal

- VizLite[™] 205H/CUT Industrial Wash should be tested for wash conditions before using the material. This can be achieved by mixing a solution of detergent and water and applying with a sponge or cloth to the material. For stain removal of grease or mineral oils, use a clean cloth dipped into white spirits. Wipe clean with water afterwards.
- Chemical splashes should be removed with a clean dry cloth.
- Neutralise splashes of strong acid or alkalise immediately with plenty of clean water
- Dispose any material that comes into contact with toxic or harmful substances in a safe and responsible manner.

Do not use the following types of products to clean/ treat stains on this garment;

- Heavy duty products or stain removal products with a high alkaline content.
- Micro-emulsions or high ph-products
- Bleaches
- Aromatic solvents

The use of the above will affect the lifespan of the retro-reflective material.

Ironing

- Iron on reverse of material if possible
- · Iron using medium heat setting.
- Do not use steam

Specialist cleaning and dry cleaning

- VizLite[™] 205H/CUT Industrial Wash is suitable for Industrial laundry methods as listed
- VizLiteTM 205H/CUT Industrial Wash is suitable for dry cleaning up to 50 times with perchloroethylene.

Drying

- Line drying is the preferred method of drying
- This product can be tumble dried at a maximum temperature of 60°C up to 100 times

 If this product is industrially laundered it can be dried using an industrial tumble dryer at 80°C up to 30 times

Maintenance issues

VizLite[™] 205H/CUT Industrial Wash retro-reflective properties will be affected by any of the following treatments;

- Coating or Spraying the garment with oils, protective waxes, paints or inks.
- Application of products such as leather spray or waxes.
- Harsh physical application of abrasive wire brushes or sand paper.

High Visibility Warning clothes should be inspected regularly and maintained in good condition. Any signs of wear and tear may affect the performance of the garment in relation to EN ISO 20471:2013.

If the performance of the retro reflective material falls below R = 100 cd/lx/m 2 the garment should be replaced.

General Safety Information Visibility Limits of VizLite[™] 205H /CUT Industrial Wash

There are various uncontrollable environmental factors that will affect visibility; these include smoke, hail, snow, mist, dust and fog. Fog, smoke, mist, and dust can all affect the dispersal of light from headlights and retro reflective performance.

The VizLite[™] 205H/CUT Industrial Wash fabric is tested for performance during exposure to rainfall, and exceeds the requirements of EN ISO 20471:2013. Brightness levels will return after the material dries out

The retro-reflective qualities can also be diminished by the wearer depending on issues such as the line of sight, other equipment and obstacles in the working environment, and not wearing the garment fastened. The wearer should be aware of these limitations and take the necessary action.

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Important notice to Purchaser / Converter / Wearer

Because of the unlimited variety of potential applications for products, BEFORE product use the converter and/ or product manufacturer must determine that the products are suitable for the intended use and are compatible with other component materials. The Purchaser is solely responsible for determining the proper amount and placement of products. While reflective products enhance visibility, no reflective product can ensure visibility on safety under all possible conditions.

Neither Viz Reflectives or any Viz Reflectives authorised converter shall be liable for any incidental, special or consequential damages relating to the use or inability to use the products regardless of legal theory used.

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