



YSL   
VizLite™

**VizLite**®

High Performance Reflective Materials



**VizLite**<sup>®</sup>  
REFLECTIVE MATERIALS

[www.safety217.eu](http://www.safety217.eu)

YSL  VizLite<sup>™</sup>

# VizLite® Tapes Summary of Certification and Standards



NFPA 1977  
NFPA 2112  
NFPA 1971

## **NFPA 1971:2013: Standard on Protective Ensemble for Structural Fire Fighting**

NFPA 1971 covers the design, labelling, testing and performance requirements, and user instructions for protective ensembles used in structural fire fighting applications.

## **NFPA 1977:2016: Standard on Protective Clothing and Equipment for Wildland Fire Fighting**

NFPA 1977 covers the design, labelling, testing and performance requirements, and user instructions for protective clothing and equipment used in wildland fire fighting applications.

## **NFPA 2112:2012: Standard on Flame-Resistant Garments for Protection of Industrial Personnel against Flash Fire**

NFPA 2112 outlines the design, testing, and performance requirements for garments used by industrial personnel for flash fire or short-duration thermal exposure hazards.



EN 61482-1-1  
EN 61482-1-2  
ASTM F1959

## **ARC CERTIFICATION**

### **IEC 61482-2 / EN 61482-1-1 Open Arc and/or IEC 61482-1-2 (box method)**

IEC 61482-2 is the European equivalent to ASTM F1506 for the thermal hazards of an arc flash. The standard includes requirements for material testing and additional information for garments constructed from compliant materials. This is required for selling garments for arc flash protection in the EU.

### **IEC 61482-1-1: 2009 Method A**

These arc flash tests determine the Arc Rating (ATPV or EBT) of a fabric or a multi-layer combination of fabrics. Prior to testing, samples are laundered five times using ISO Method 6330. For compliance with IEC 61482-2 and to obtain CE Marking, both fabrics and garments must be arc tested. IEC 61482-1-1 Method A is identical to ASTM F1959, with the exception of different laundry preconditioning requirements.

### **ASTM F1959- Arc rating per F1506 Woven, Knits or Non-woven: Standard Test Method for Determining the Arc Rating of Materials for Clothing**

The Arc Flash Testing for Rain wear and Laminated Fabric determines the Arc Rating (ATPV and Ebt) of rain wear or laminated fabric. Before testing, samples are laundered three times and dried once in accordance with AATCC TM 135.



ANSI 107  
EN ISO 20471

## **EN ISO 20471:2013: High Visibility Clothing**

The European standard which determines performance for retro-reflective materials used in high visibility clothing

## **ANSI/ISEA 107-2015: American National Standard for High Visibility Safety Apparel and Accessories**

ANSI/ISEA 107 provides design requirements and minimum performance criteria for high visibility apparel used by end users in low visibility work environments such as construction workers, first responders, and utility workers.



EN 469  
EN ISO 14116  
EN ISO 11611  
EN ISO 11612

## **BS EN 469: 2005: Protective clothing for firefighters. Performance requirements for protective clothing for fire fighting.**

## **EN ISO 14116:2008: Protective clothing. Protection against flame. Limited flame spread materials, material assemblies and clothing.**

## **EN ISO 11611:2015: Protective clothing for use in welding and allied processes.**

## **EN ISO 11612:2015: Protective clothing – Clothing to protect against heat and flame.**



The **STANDARD 100 by OEKO-TEX®** is a worldwide consistent, independent testing and certification system for raw, semi-finished, and finished textile products at all processing levels, as well as accessory materials used. Only the products where all components comply with the strict specification and contain no concentrates of harmful substances which are detrimental to health can carry the Oeko-Tex label.

# 200

## ECONOMY - FIRST QUALITY REFLECTIVE MATERIAL

YSL® VizLite® 200 is a poly/cotton based reflective material that is a cost effective solution for commodity garments such as high visibility vests and trousers. It meets and exceeds all the requirements for **EN20471:2013 & ANSI 107:2010** with a good wash performance.

Conforms to **Oeko-Tex® standard 100 product class I** and meets the human-ecological requirements of that standard.

❗ **A cost effective solution, ideal for Traffic Management and Construction high visibility garments.**



ANSI 107  
EN ISO 20471



50x



DRY CLEAN  
10x

SEW ON

# 201

## PREMIUM - SUPERIOR PERFORMANCE REFLECTIVE MATERIAL

YSL® VizLite® 201 is specifically constructed to look brighter and offers our highest levels of reflectivity. It exceeds all of the legal requirements of **EN20471:2013**

**& ANSI 107:2010**. Conforms to **Oeko-Tex® standard 100 product class I** and meets the human-ecological requirements of that standard.

❗ **Ideal for premium high visibility garments where looks are as important as performance and only the best will do.**



ANSI 107  
EN ISO 20471



50x



DRY CLEAN  
30x

SEW ON

# 205 IW

## REFLECTIVE MATERIAL FOR INDUSTRIAL WASH

YSL® VizLite® 205 IW offers all of the reflectivity performance, with added benefit of being our toughest performer when it comes to washing. Exceeds all of the legal requirements of **EN471:2013 & ANSI 107:2010**. Conforms to **Oeko-Tex® standard 100 product class I** and human-ecological requirements of that standard.

❗ **Ideal for garments that are expected to undergo industrial washing.**



ANSI 107  
EN ISO 20471



100x 50x 50x



DRY CLEAN  
50x

SEW ON

# 201HE

## ELASTIC APPLICATION-REFLECTIVE MATERIAL

**YSL** **VizLite**® **201HE** is a heat applied premium reflective film which has a light silver appearance making it ideal for all types of EN ISO 20471 and ANSI 107:2010 garments. It is applied to either a finished garment or cut panels using a heat press. Conforms to **Oeko-Tex**® **standard 100 product class II** and meets the human-ecological requirements of that standard.

❗ **Ideal for next to skin garments and waterproof garments that are constructed from heat sensitive fabrics such as elasticised fabrics.**



ANSI 107  
EN ISO 20471



heat applied

# 201HA

## REGULAR TEMPERATURE-REFLECTIVE MATERIAL

**YSL** **VizLite**® **201HA** is specifically constructed to look brighter and offers our highest levels of reflectivity. It exceeds all of the legal requirements of **EN471:2013 & ANSI 107:2010**. Conforms to **Oeko-Tex**® **standard 100 product class I** and meets the human-ecological requirements of that standard.

❗ **Ideal for premium high visibility garments where looks are as important as performance and only the best will do.**



ANSI 107  
EN ISO 20471  
CSA Z96-15



heat applied

# 205H

## INDUSTRIAL WASH-HIGH REFLECTIVE MATERIALS

**YSL** **VizLite**® **205H** is a heat applied premium reflective tape which is suitable for garments that require reflective tape that complies to EN ISO 20471:2013 and ANSI 107:2010 standard. It is applied to either finished garments or cut panels using a heat press. Conforms to **Oeko-Tex**® **standard 100 product class I** and meets the human-ecological requirements of that standard.

❗ **Ideal for high visibility garments for use in industrial electrical, power generation or petrochemicals environment, railway etc. Rental garments that require industrial laundry.**



ANSI 107  
EN ISO 20471



heat applied



# 201 HA/CUT

SEGMENTED CUT DESIGN - REFLECTIVE MATERIAL

YSL® VizLite® 201 HA /CUT meets and exceed the standards for EN ISO 20471:2013 and ANSI 107:2010. It can be heat applied to garments or cut panels using a heat press. Conforms to **Oeko-Tex® standard 100 product class I** and meets the human-ecological requirements of that standard.

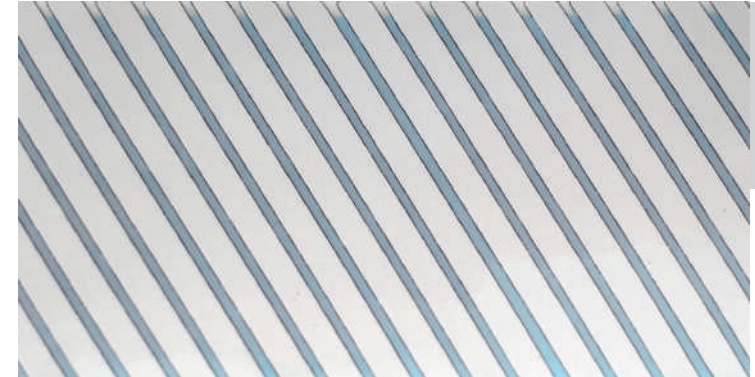
❗ **Ideal for garments that are worn next to skin and need some degree of flexibility and remain breathable such as polo shirts, T-shirts and soft shell jackets.**



ANSI 107  
EN ISO 20471



60C  
50x



heat applied

# 201 HFR/CUT

SEGMENTED CUT DESIGN - REFLECTIVE MATERIAL

YSL® VizLite® 201HFR /CUT is a heat applied premium reflective tape which is suitable for EN469:2007 Fire Retardant garments that require reflective tape that complies to EN ISO 20471:2013 and ANSI 107: 2010 standard. It is applied to either finished garments or cut panels using a heat press. Conforms to **Oeko-Tex® standard 100 product class I** and meets the human-ecological requirements of that standard.

❗ **Ideal for fire retardant waterproof garments such as rain jackets and over trousers for welding and petrochemical industries.**



EN 469  
EN ISO 14116  
EN ISO 11611  
EN ISO 11612



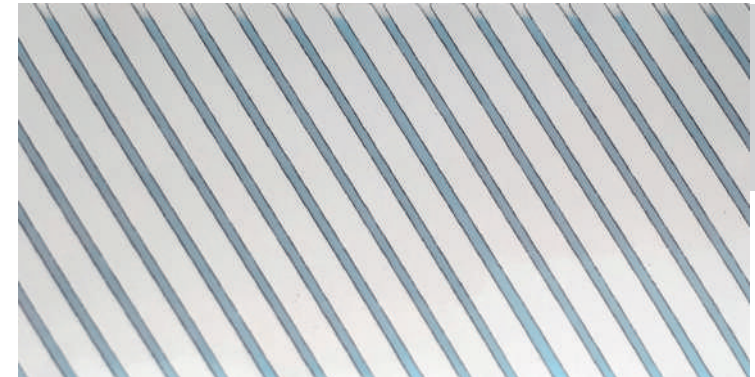
ANSI 107  
EN ISO 20471



60C  
50x



DRY CLEAN  
30x



heat applied

# 205H/CUT

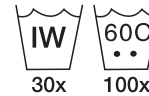
SEGMENTED CUT DESIGN - REFLECTIVE MATERIAL

YSL® VizLite® 205H/CUT is a heat applied premium reflective tape which is suitable for garments that require reflective tape that complies to EN ISO 20471 20471:2013 and ANSI 107: 2010 standard. It is applied to either finished garments or cut panels using a heat press. Conforms to **Oeko-Tex® standard 100 product class I** and meets the human-ecological requirements of that standard.

❗ **Ideal for high visibility garments for use in industrial electrical, power generation or petrochemicals environment, railway etc. Rental garments that require industrial laundry.**



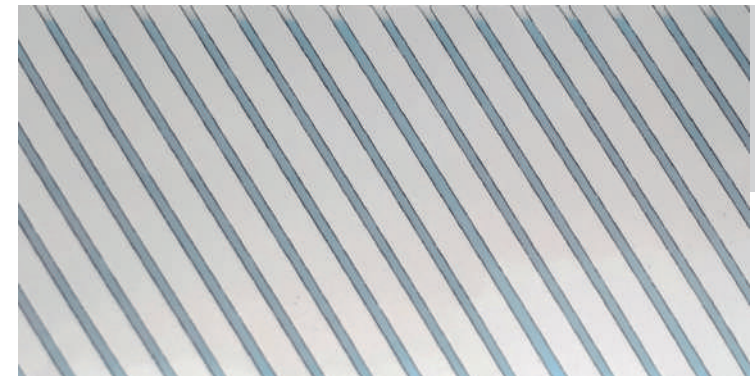
ANSI 107  
EN ISO 20471



IW 30x 60C 100x



DRY CLEAN  
50x



heat applied

# 201HFR

FIRE RETARDANT - REFLECTIVE MATERIAL

YSL<sup>®</sup> VizLite<sup>®</sup> 201HFR is a heat applied premium reflective tape which is suitable for EN469:2007 Fire Retardant garments that require reflective tape that complies to EN ISO 20471:2013 and ANSI 107: 2010 standard. It is applied to either finished garments or cut panels using a heat press. Conforms to **Oeko-Tex<sup>®</sup> standard 100 product class II** and meets the human-ecological requirements of that standard.

🔥 **Ideal for fire retardant waterproof garments such as rain jackets and over trousers for welding and petrochemical industries.**



EN 469  
EN ISO 14116  
EN ISO 11611  
EN ISO 11612

ANSI 107  
EN ISO 20471



heat applied

# 301IW

FIRE RETARDANT FOR INDUSTRIAL WASH

YSL<sup>®</sup> VizLite<sup>®</sup> 301 IW is a fire retardant reflective material making it ideal for garments used on EN469:2007 and NFPA certified FR garments. It meets and exceeds the reflective requirements of EN ISO 20471:2013 and ANSI 107:2010, also can be industrial laundered which makes it suitable for rental garments. It has a 100% cotton FR treated backing. Conforms to **Oeko-Tex<sup>®</sup> standard 100 product class II** and meets the human-ecological requirements of that standard.

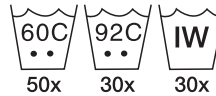
🔥 **Ideal for high visibility garments for use in industrial electrical, power generation or petrochemicals environment, railway etc. Rental garments that require industrial laundry.**



NFPA 1977  
NFPA 2112  
NFPA 1971

EN 469  
EN ISO 14116  
EN ISO 11611  
EN ISO 11612

ANSI 107  
EN ISO 20471



fire retardant sew on

# 302

FIRE RETARDANT FOR INDUSTRIAL WASH

YSL<sup>®</sup> VizLite<sup>®</sup> 302 is an inherent fire retardant reflective material making it ideal for garments used on FR garments and Fire Fighters clothing. This product meets and exceeds the reflective requirements for EN ISO 20471:2013 and ANSI 107:2010. It has a high performance in laundry. The product has an Aramid backing. Conforms to **Oeko-Tex<sup>®</sup> standard 100 product class II** and meets the human-ecological requirements of that standard.

🔥 **Ideal for industrial laundry rental garments for the garments certified EN469:2007 and NFPA standards such as Fire Fighter turnout gear.**



NFPA 1977  
NFPA 2112  
NFPA 1971

EN 469  
EN ISO 14116  
EN ISO 11611

ANSI 107  
EN ISO 20471



fire retardant sew on

# 305

## FIRE RETARDANT TRIPLE TRIM

**YSL** **VizLite**® 305 Flame Retardant Fluorescent Yellow / Silver Reflective Material is constructed of a silver reflective element applied to the centre of the Fluorescent yellow flame retardant backing. The central silver element meets and exceeds the reflective requirements and the Fluorescent Yellow element meets the requirements for chromaticity of both ISO 20471:2003 and ANSI 107:2010. It Conforms to **Oeko-Tex**® standard 100 product class II and meets the human-ecological requirements of that standard.

**I** Ideal for fire fighting garments that are certified to EN469:2007 and NFPA standards.



NFPA 1977  
NFPA 2112  
NFPA 1971



EN 469  
EN ISO 14116  
EN ISO 11611  
EN ISO 11612



ANSI 107  
EN ISO 20471



50x



10x



fire retardant sew on

# 306

## FIRE RETARDANT TRIPLE TRIM FOR INDUSTRIAL WASH

**YSL** **VizLite**® 306 Flame Retardant Fluorescent Yellow / Silver Reflective Material is constructed of a silver reflective element applied to the centre of the Fluorescent yellow flame retardant Aramid backing. The central silver element meets and exceeds the reflective requirements and the Fluorescent Yellow element meets the requirements for chromaticity of both ISO 20471:2013 and ANSI 107:2010. Conforms to **Oeko-Tex**® standard 100 product class II and meets the human-ecological requirements of that standard.

**I** Ideal for fire fighting garments that are certified to EN469:2007 and NFPA standards that require industrial laundry.



NFPA 1977  
NFPA 2112  
NFPA 1971



EN 469  
EN ISO 14116  
EN ISO 11611  
EN ISO 11612



ANSI 107  
EN ISO 20471



100x



50x



50x



50x



fire retardant sew on

# 310

## FIRE RETARDANT REFLECTIVE YELLOW / ORANGE

**YSL** **VizLite**® 310 Certified EN 469:2007. The fabric is constructed of a layer of microscopic clearglass beads bonded onto a 100% cotton backing with Proban treatment. **YSL** **VizLite**® 310 reflective, flame retardant tape is recommended for use on garments that require flame and heat resistance such as fire fighting clothing. Conforms to **Oeko-Tex**® standard 100 product class II and meets the human-ecological requirements of that standard.

**I** Ideal to be used on flame resistance garments.



EN 469



30x



fire retardant sew on

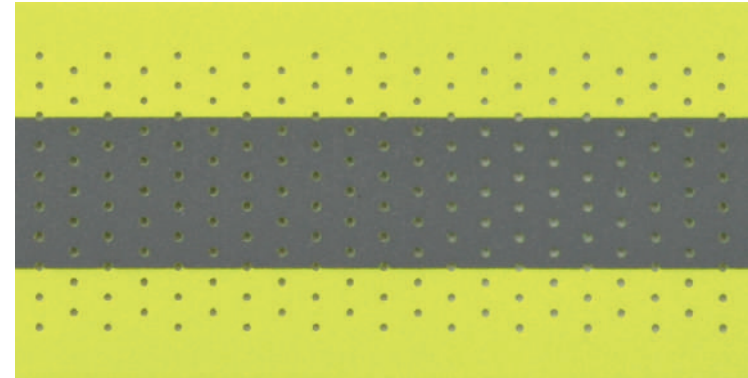
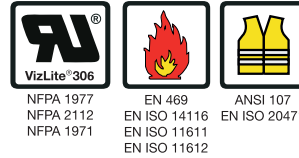


# 305K

## PERFORATED FIRE RETARDANT TRIPLE TRIM

**YSL** **VizLite**® **305K** Perforated Flame Retardant Fluorescent Yellow / Silver Reflective Material is constructed of a silver reflective element applied to the centre of the Fluorescent yellow flame retardant backing. The central silver element meets and exceeds the reflective requirements and the Fluorescent Yellow element meets the requirements for chromaticity of both ISO 20471:2003 and ANSI 107:2010. It Conforms to **Oeko-Tex**® **standard 100 product class II** and meets the human-ecological requirements of that standard. It is a perforated fabric with some degree of flexibility and remains breathable.

📌 **Ideal for fire fighting garments that are certified to EN469:2007 and NFPA standards.**



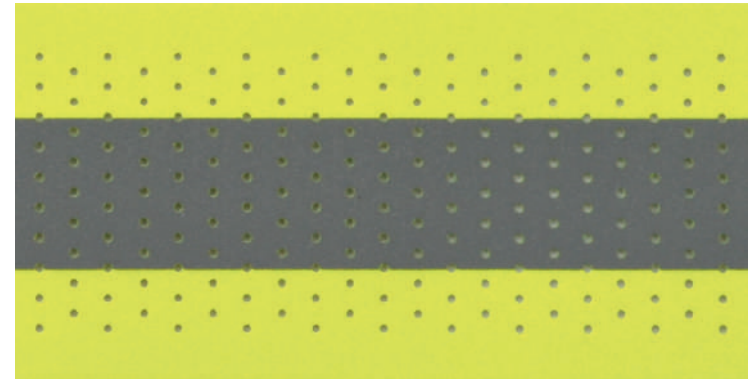
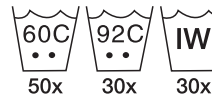
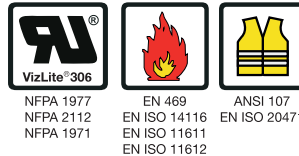
fire retardant sew on

# 306K

## PERFORATED FIRE RETARDANT FOR INDUSTRIAL WASH

**YSL** **VizLite**® **306K** Flame Retardant Fluorescent Yellow / Silver Reflective Material is constructed of a silver reflective element applied to the centre of the Fluorescent yellow flame retardant Aramid backing. The central silver element meets and exceeds the reflective requirements and the Fluorescent Yellow element meets the requirements for chromaticity of both ISO 20471:2013 and ANSI 107:2010. Conforms to **Oeko-Tex**® **standard 100 product class II** and meets the human-ecological requirements of that standard. It is a perforated fabric with some degree of flexibility and remains breathable.

📌 **Ideal for fire fighting garments that are certified to EN469:2007 and NFPA standards that require industrial laundry.**



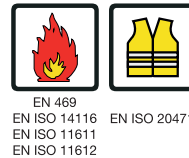
fire retardant sew on

# 310CP

## FIRE RETARDANT REFLECTIVE YELLOW

**YSL** **VizLite**® **310CP** is a yellow reflective fire retardant material that meets and exceeds the requirements for combined performance for EN ISO 20471 and the protective clothing for Firefighting requirements of EN469:2007 and EN ISO 14116:2015. Conforms to **Oeko-Tex**® **standard 100 product class II** and meets the human-ecological requirements of that standard.

📌 **Ideal for FR garments that require a combined performance fabric such as welding trousers and coveralls that protect against hot metal, sparks and open flame.**



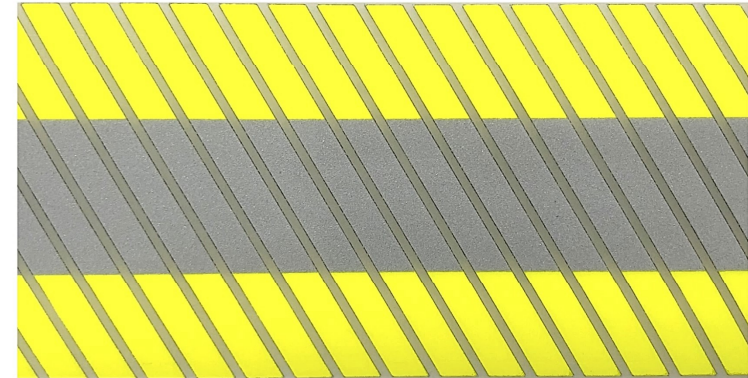
fire retardant sew on

# 202HFR/CUT-A

DESIGN

FIRE RETARDANT SEGMENTED TRIPLE TRIM

YSL-VizLite® 202 HFR/CUT Flame retardant fluorescent yellow / silver reflective material is a segmented transfer tape, with a unique design, for safety clothing such as firefighter garments and flame-resistant workwear, requiring a high grade of daytime and night-time visibility. The reflection values of the silver trim meet the EN-20471 requirements, while the yellow trim ensures daytime conspicuity. The flame-retardant properties meet the EN-469 flammability requirements. The fact it is segmented ensures better wear comfort and increased breathability.

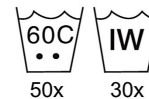


heat applied

# 205HFR

FIRE RETARDANT FOR INDUSTRIAL WASH

YSL-VizLite® 205 HFR flame retardant silver reflective heat-transfer tape is suitable for EN-469 compliant clothing with reflection values that meet the EN-20471 requirements and tough performance when it comes to washing, being able to undergo industrial laundering, which makes it suitable for rental garments.



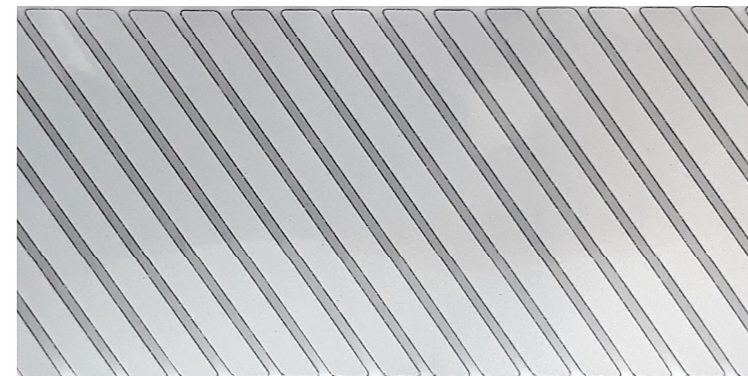
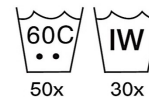
heat applied

# 205HFR/CUT

STICKY

FIRE RETARDANT SEGMENTED FOR INDUSTRIAL WASH

YSL-VizLite® 205 HFR/CUT flame retardant segmented reflective heat-transfer tape is suitable for EN-469 compliant clothing with reflection values that meet the EN-20471 requirements and tough performance when it comes to washing, being able to undergo industrial laundering, which makes it suitable for rental garments. The fact it is segmented ensures better wear comfort and increased breathability.



heat applied

# PT601/602

## PRISMATIC REFLECTIVE VINYL

**Micro Prismatic vinyl reflective sew on tape certified  
EN ISO 20471:2013 class2**

It makes the wearer highly visible in nighttime, since highly retroreflective micro prisms are formed on flexible, UV-stabilized polymeric film. Colors available: white, fluorescent lime.

**!** Ideal for high visibility garments where looks are as important as performance



EN ISO 20471



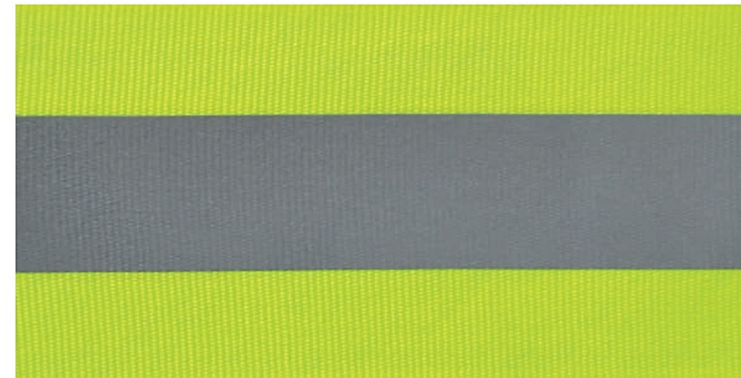
SEW ON

# 080/081

## REFLECTIVE TWIN TRIM

**YSL @ VizLite® 080/081** is a twin trim tape consisting of a combination of two separate materials. A substrate layer, 50mm wide woven 100% polyester with PU coating on reverse and a reflective layer, 20mm wide heat applied reflective material.

**!** Ideal for using on armbands.



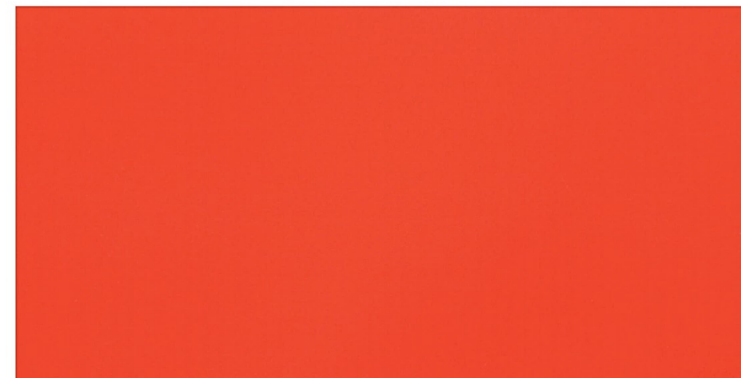
SEW ON

# 091

## COLOURED REFLECTIVE STITCH-ON TAPE

**YSL @ VizLite 091** is intended for non-compliant safety garments and for fashion clothing and sportswear where a reflective effect is required. The reflected light is white, regardless of the colour of the tape. The substrate layer is 70% Polyester and 30% cotton. Available colours: white, yellow, orange and black.

**!** Ideal for use on non-compliant garments.




SEW ON

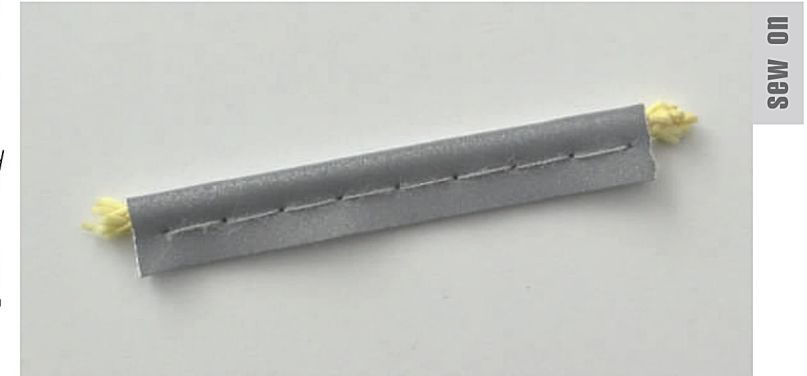


# 301P

## FLAME RETARDANT REFLECTIVE PIPING

YSL  **VizLite 301P** is constructed with a 3 mm diam. aramid core and 20 mm reflective flame-retardant 301 tape. It is certified EN 469 and EN ISO 20471, making it suitable for flame retardant clothing. The finish effect creates a point of difference to your design.



 **Ideal for using on garments made with FR treated cotton and aramid fibres.**



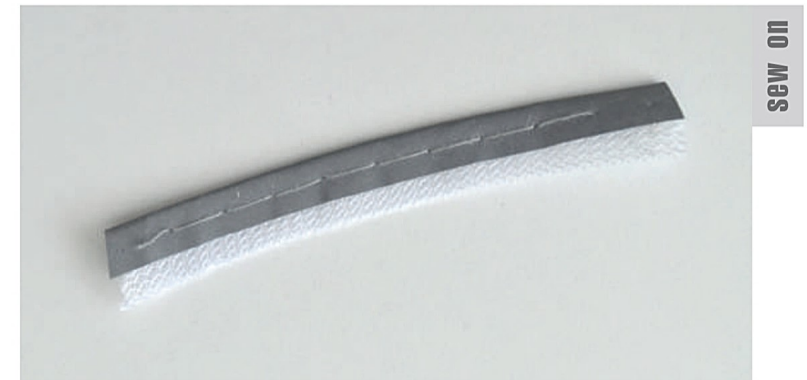
sew on

# 801P

## PIPING 1.3 x 2.5 cm GREY COLOUR

YSL  **VizLite 801P** Piping can be easily incorporated into a design; the finished effect gives a dimension of reflectivity and creates a point of difference to your design, be it clothing, bags or accessories. 801 corded piping is constructed with YSL  VizLite 801 reflective tapes.


 **Ideal to be incorporated in jackets**




sew on

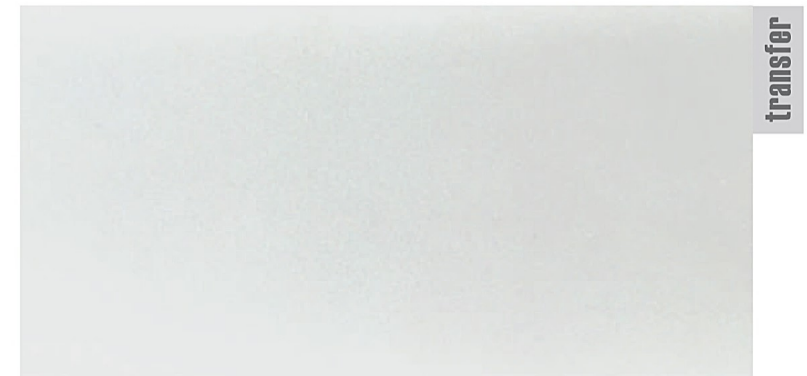
# 800

## TRANSFER FILM

YSL  **VizLite 800** is a semi-finished product composed of non-metallised high-reflectance glass microspheres. The microspheres adhere and are transported on a film or a support in PET / PE.

The VizLite 800 transfer film is widely used in the production of reflective thermo-adhesives in different colours, in logos and in the lamination on surfaces of different compositions, such as rubber, synthetic leather and fabrics.

 **Ideal for the production of transfer films in different colours.**



transfer



the new silver



**AUTHORISED DEALER FOR EUROPE**

**SAFETY 217 S.R.L.**  
**Ufficio e Magazzino**  
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**24055 Cologno al Serio (BG)**  
**ITALY**

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