

## Description

ORALITE® Brilliance® Series UFR reflective trim is designed for use on flame resistant apparel used by utility workers exposed to momentary electric arc and thermal hazards. The trim is available in fluorescent yellow-green and orange. The retroreflective garment trim has a smooth-sealed outer surface as described in Part 6 of the MUTCD for traffic control devices.

## Product Construction

ORALITE® Brilliance® Series UFR reflective trim is composed of cube corner (microprism) reflective elements integrally bonded to a flexible, smooth surfaced, weather resistant UV-stabilized polymeric film. The microprismatic film is welded to a fabric reinforced polymeric backing material which protects the prisms from dirt and moisture. Trim is easily sewn to garments.

## Reflectivity

ORALITE® Brilliance® Series UFR reflective trim exceeds the minimum reflectivity requirements of ANSI/ISEA 107-2020 and CSA Z96-2022 for Level 2 performance. Typical reflectivity for fluorescent yellow-green is 580 cd/lux/m<sup>2</sup> and orange is 400 cd/lux/m<sup>2</sup> at 0.20° observation and +5° entrance angles.

## Color

ORALITE® Brilliance® Series UFR reflective trim is available in fluorescent yellow-green and orange. The fluorescent yellow-green color meets the requirements of ANSI/ISEA 107-2020 and CSA Z96-2022 for Combined-Performance Materials. Combined-Performance materials provide daytime visibility through fluorescent color and count as background material in calculating minimum area requirements.

## Arc Resistance

ORALITE® Brilliance® Series UFR reflective trim, when tested in accordance with ASTM F1506 and F1891, complies with the minimum requirements. Additionally, the material has an ATPV (Arc Thermal Performance Value) greater than 25 cal/cm<sup>2</sup> when tested in accordance with ASTM F1959.

## Flame Resistance

When tested in accordance with NFPA 2112-2018, ORALITE® Brilliance® Series UFR reflective trim exceeds the minimum requirements for both after-flame ( $\leq 2.0$  seconds), and char length ( $\leq 4.0$  inches). Per the requirement, the trim does not melt or drip.

## Wet Performance

When tested according to the ANSI/ISEA 107-2020, Retroreflective Performance in Rainfall test, ORALITE® Brilliance® Series UFR reflective trim will typically retain 70% of its photometric performance when dry.

## Washing Performance

ORALITE® Brilliance® Series UFR reflective trim has been certified to withstand a minimum of 20 washings when washed in accordance with ANSI/ISEA 107-2020 section 10.4.5. Do Not Dry Clean

## Enhanced Surface Preparation

ORALITE® Brilliance® Series UFR reflective trim is manufactured with a unique Enhanced Surface Preparation (ESP) which minimizes staining of the retroreflective garment trim from fluorescent dyes as a result of bleeding from background fabrics during laundering and intimate contact. ESP also provides a glossy top surface which is inherently resistant to soiling and allows for easy cleaning.

## Resistance to Chemical Exposure

ORALITE® Brilliance® Series UFR reflective trim offers resistance to a variety of chemicals potentially encountered in utility work situations, and is able to withstand a 10 minute immersion in 5% HCl, heptane, MeOH, NaOH, gasoline, kerosene, and mineral oil without evidence of blistering or dissolving.

## Sewing Instructions

ORALITE® Brilliance® Series UFR reflective trim is manufactured with an outer sewing border area. The sew borders provide an area for sewing the trim to garments without damaging the reflective properties of the material. Stitching outside the prescribed sew borders may compromise the integrity of the trim. The recommend stitch count is 8 per inch.



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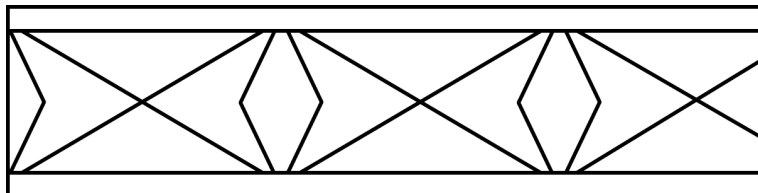
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### Seal Pattern



### Note:

All ORALITE® products are manufactured within an ISO 9001:2015 controlled manufacturing environment and batch traceability is possible on the basis of the roll number.

### IMPORTANT NOTICE

All ORALITE® products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning ORALITE® products is based upon research which the Company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of ORALITE® products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use.

All specifications are subject to change without prior notice.



WARNING – This product may expose you to chemicals which are known in the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

ORALITE® is a trademark of ORAFOL Europe GmbH



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