

Description

ORALITE® GP 030 is a soft, flexible sew-on glass bead microsphere reflective garment tape, designed for working in areas of fire protection where arc and flame resistance are required. The tape is ideal for all standard common high visibility work wear garments. ORALITE® GP 030 exceeds the minimum reflectivity requirements of EN ISO 20471:2013.

Product Construction

ORALITE® GP 030 is composed of wide-angle, exposed retroreflective lenses bonded to a 100% cotton sewable fabric.

Product Approvals

- EN ISO 20471:2013/A1:2016 – High-visibility warning clothing
- EN 469:2005+A1:2016 – Protective clothing for firefighting
- EN ISO 11611:2015 – Protective clothing for use in welding and allied processes
- EN ISO 11612:2015 – Clothing to protect against heat and flame
- EN ISO 14116:2015 – Clothing to protect against heat and flame. Limited flame spread materials, material assemblies and clothing.
- EN ISO 15614:2007 – Protective clothing for firefighters – Laboratory test methods and performance requirements for wildland clothing
- Arc rated

Colour

ORALITE® GP 030 is available in silver (daytime appearance) with a white reflected colour.

Retroreflectivity

ORALITE® GP 030 exceeds the minimum reflectivity requirements of EN ISO 20471:2013, when tested at $e = 0^\circ$ or $e = 90^\circ$ in accordance with the procedures in EN ISO 20471:2013. Typical coefficients of retroreflection are shown in Table 1.

Arc Resistance

ORALITE® GP 030, 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 15 cal/cm² as per ASTM F1959.

Flame Resistance

ORALITE® GP 030 meets the requirements of EN 469:2005 Clause 6.1 and 6.5 and EN 14116:2015 Index 3.

Machine Washing

ISO 6330:2010, Method 6N – 50 washes at 60° C.

Dry Cleaning

ISO 3175:2010, Method 9.1 – 30 cycles.

Application Instructions

ORALITE® GP 030 has a single layer construction which allows for stitching in any area of the surface. A stitch count of 8 stitches per 2,54 cm is recommended. The stitching should be at least 2 mm from the edge of the garment tape.

Shelf Life

The product must be used within one year from the shipment date. All rolls including partially used rolls should be stored in original packaging, tightly wound. Store in a clean and dry area, away from direct sunlight. Store at 20° C and 50% relative humidity.

Table 1 – Retroreflectivity

Observation Angle	Entrance Angle ($\beta_1, \beta_2=0$)			
	5°	20°	30°	40°
0,20° (12')	450	290	180	65
0,33° (20')	250	200	170	60
1,00° (1°)	25	15	12	10
1,50° (1°30')	10	7	5	4

All values have units of cd/lux/m².

IMPORTANT NOTE

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