

Description

ORALITE® Pedestrian Crossing Material is a tough, weather resistant, highly reflective, reboundable sheeting designed for rugged use. This material is easy to apply to a variety of smooth plastic substrates, including flammertreated polyethylene as well as sign substrates such as sign quality aluminum.

Product Construction

ORALITE® Pedestrian Crossing Material is composed of cube corner (microprism) retroreflective elements integrally bonded to a flexible, smooth-surfaced, tough, weather resistant and UV-stabilized polymeric film. The prism surfaces are coated with a vacuum deposition of aluminum to provide a mirror surface to the prism facets. The material includes an aggressive high-tack pressure sensitive adhesive.

Color

The color conforms to the requirements in Table 1 when tested in accordance with ASTM D4956, section 7.4. The four pairs of coordinates determine the acceptable color when measured with standard illuminant D65 using a Hunter LabScan.

Reflectivity

When tested in accordance with ASTM E810, the coefficient of retroreflection for ORALITE® Pedestrian Crossing Material shall not measure less than the values shown in Table 2. Rotation angles of 0° and 90° are measured and averaged.

Adhesive

The adhesive is protected by a release liner which shall be removed by peeling, without soaking in water or other solvents. The adhesive produces such a bond that a 1" strip shall require a force of at least 2.25 pounds, at a speed of 12" per minute, to be removed from the substrate after a 20 minute dwell. A 1" strip shall provide a bond such that it shall support a 1.75 pound weight for 5 minutes without the strip peeling for a distance of more than 2" when applied to a smooth aluminum surface as specified in the ASTM D4956 adhesion test.

Application Instructions

Material should be applied to a smooth, clean, dry surface at temperatures ranging from 50°F to 100°F. Low surface energy substrates (LDPE, HDPE, polypropylene) should be flame treated prior to application.

Impact Resistance

ORALITE® Pedestrian Crossing Material shall show no signs of cracking or delamination outside the actual area of impact when it is subjected to an impact of 100 in/lb generated by a 4.0 pound weight with a 0.625" rounded tip on a Gardner variable impact tester, IG-1120, as per ASTM D4956.

Solvent Resistance

ORALITE® Pedestrian Crossing Material meets the requirements of LS300C solvent resistance, section 3.6.7, when tested per Table VI, test method 4.4.6.

Specular Gloss

ORALITE® Pedestrian Crossing Material shall have an 85° specular gloss of not less than 40 when tested in accordance with ASTM D523.

Enhanced Surface Preparation (ESP)

ORALITE® Pedestrian Crossing Material has a unique Enhanced Surface Preparation (ESP), which eliminates the need for a thorough cleaning (e.g. alcohol wipe) prior to screen-printing. It is still good business practice to wipe the surface with a clean, dry tack cloth. Enhanced Surface Preparation allows the use of vinyl graphics using pressure sensitive adhesives. Also, Enhanced Surface Preparation reduces the amount of dust, dirt and other road grime that sticks to the sign face.

Table 1



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ORALITE® PEDESTRIAN CROSSING MATERIAL

(Formerly a Reflexite® Branded Product)

Color Specification Limits (daytime)

Color	Chromaticity Coordinates ²								Luminance Factor (Y%) Min.
	1		2		3		4		
	x	y	x	y	x	y	x	y	
Fluorescent Yellow-Green	0.387	0.610	0.369	0.546	0.426	0.496	0.460	0.540	60

* The four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with CIE Standard Illuminant D65.

Table 2
Coefficient of Retroreflection (R')

Observation Angle	Entrance Angle	Fluorescent Yellow-Green
0.20°	- 4°	325
0.20°	+ 30°	180
0.50°	- 4°	120
0.50°	+ 30°	55

*Candelas/Lux/Square Meter

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 contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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