

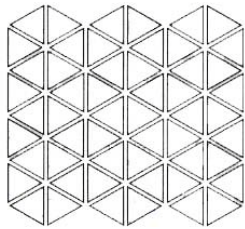
Description

ORALITE® Channelizer is a tough weather resistant, highly reflective, reboundable sheeting designed for rugged outdoor use. The product is die cuttable and plotter cuttable with no need for edge sealing.

Product Construction

ORALITE® Radiance is composed of cube corner (microprism) retroreflective elements integrally bonded to a flexible, smooth-surfaced tough and weather resistant UV stabilised polymeric film.

Film Logo Pattern



Colour

ORALITE® Channelizer is available in silver. The colour conforms to the requirements in Table 2 when measured in accordance with CIE Publication No. 15.2. The four pairs of coordinates determine the acceptable colour when measured with standard illuminant D65 using a Hunter LabScan.

Retroreflectivity

When illuminated with CIE illuminate A and measured with provisions of CIE No. 54 the coefficient of retroreflection (RA) of ORALITE® Channelizer shall not measure less than the values shown in Table 1.

Impact Resistance

ORALITE® Channelizer shall show no signs of cracking or delamination outside the actual area of impact when it is subjected to an impact of 11,3 N·m generated by a 1,8 kg weight with a 16 mm rounded tip on a Gardner variable impact tester, IG-1120. As per ASTM D4956.

Flexibility Resistance

ORALITE® Channelizer is conditioned to 0° C. The sheeting is sufficiently flexible to show no cracking when bent in one second time around a 3,2 mm diameter mandrel with the adhesive contacting the mandrel as specified in ASTM D 4956 reboundable sheeting requirements (S2.2.2).

Solvent Resistance

ORALITE® Channelizer meets the requirements of LS-300C solvent resistance, section 3.6.7, when tested per Table VI, test method 4.4.6.

Weatherability

ORALITE® Channelizer meets the requirements of ASTM D 4956, section 6.4, which requires that the material “shall be weather resistant and show no appreciable cracking, scaling, pitting, blistering, edge lifting, or curling, or more than 0,8 mm shrinkage or expansion when tested in accordance with 7.6.

Conduct reflectivity measurements after outdoor weathering at 0,2° observation and -4° and +30° entrance angles. The minimum coefficient of retroreflection after weathering is specified in Table 11”.

When tested in a carbon-arc weatherometer in accordance with ASTM D 4956 supplemental requirements (S.3) and ASTM Practice G 23, ORALITE® Channelizer will meet or exceed the weathering requirements.

Adhesive

The adhesive is protected by a release liner which shall be removed by peeling, without soaking in water or other solvents. Different adhesives can be supplied depending on the substrate. Please contact ORAFOL for further information.

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

Entrance Angle ($\beta_1, \beta_2=0$)	Observation Angle		
	12' (0,20°)	20' (0,33°)	1°
5°	250	180	20
30°	150	100	15
40°	110	95	5

All values have units of cd/lux/m².

Table 2
Colour Specification Limits (Daytime)

Colour	Chromaticity Coordinates*								Y%	
	1		2		3		4		min.	max.
	x	y	x	y	x	y	x	y		
15 Silver	0,303	0,287	0,368	0,353	0,340	0,380	0,274	0,316	27,0	----

*) The four pairs of chromaticity coordinates determine the acceptable chromaticity when measured with standard illuminant C using a Hunter LabScan spectrophotometer.

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.

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