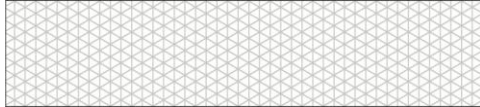


Product

Reflexite® V92 Daybright® Conspicuity Sheeting is a tough, weather and solvent resistant microprismatic retroreflective sheeting designed for rugged outdoor use on the sides and rear of trucks, trailers, farm equipment, automobiles and all types of mobile and industrial equipment.

Daybright® Pattern



Construction

Reflexite® V92 Daybright® Conspicuity Sheeting is composed of cube corner (microprism) retroreflective elements integrally bonded to a flexible, smooth-surfaced, tough and weather resistant 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 resulting tape is not more than 0.008 inch thick and comes with an aggressive high-tack pressure sensitive adhesive.

Color

The sheeting is available in a variety of colors (see Table 1) featuring Reflexite's Daybright® technology – providing brighter, more vivid daytime colors than previously available in metalized microprism sheeting. The colors conform to the requirements in Table 1 when tested in accordance with ASTM practices E308 and E1164 and standards E1347 and E1349. The measured values are the average of eight readings. The test sample is rotated 45° about its own axis after each reading.

Reflectivity

Reflexite® V92 Daybright® Conspicuity Sheeting shall meet or exceed the minimum coefficient of retroreflection shown in Table 2. The sheeting shall be measured in accordance with ASTM E810. Rotation angles of 0° and 90° are measured and averaged.

Adhesive

The adhesive is protected by a release liner that shall be removed by peeling, without soaking in water or other solvents. The adhesive produces a bond such that a 1 inch [25mm] wide strip shall support a 1 3/4 pound [0.79kg] weight for five minutes without the strip peeling a distance of more than 2 inches [51mm] when applied to a smooth aluminum panel as specified in the ASTM D4956 adhesion test.

Impact Resistance

Following application to a smooth surface aluminum rectangle, 0.040 inch by 3 inch by 6 inch [1.01mm by 76mm by 127mm], the specimen is conditioned for 24 hours at 72°F [23°C] and 50% relative humidity. The sheeting shall show no cracking when the face of the panel is subjected to an impact of a 2 pound [0.91kg] weight with a 5/8 inch [15.8mm] rounded tip dropped from a 10 inch pound [1.13N-m] setting on a Gardner variable impact tester, IG-1120.

Shrinkage

A 9 inch by 9 inch [229mm by 229mm] specimen of the sheeting with liner is conditioned a minimum of one hour at 72°F [23°C] and 50% relative humidity. The liner is then removed and the specimen is placed on a flat surface with the adhesive side up. Ten minutes after the liner is removed and again after 24 hours, the specimen is measured to determine the amount of dimensional change. The specimen will not shrink in any dimension more than 1/32 inch [0.8mm] in 10 minutes and 1/8 inch [3.2mm] in 24 hours.

Flexibility

The sheeting is conditioned for 24 hours at 72°F [23°C] and 50% relative humidity. The release liner is removed and the sheeting is sufficiently flexible to show no cracking when bent in one second's time around a 1/8-inch [3.2mm] diameter mandrel with the adhesive contacting the mandrel.



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Solvent Resistance

Reflexite® V92 Daybright® Conspicuity Material meets the requirements of LS-300C solvent resistance, section 3.6.7, when tested as specified in Table VI, test method 4.4.6.

Specular Gloss

The sheeting shall have a specular gloss of not less than 40 when tested in accordance with ASTM method D523 at an angle of 85°.

Application

The recommended application temperature to achieve best results is 65°F [18°C] or above.

Durability/Warranty

5 year limited warranty

Contact your ORAFOL Americas Inc. representative for details.

Table 1 – Color Specification Limits

Color	Chromaticity Coordinates*								Reflectance Y	
	1		2		3		4		Min	Max
	x	y	x	y	x	y	x	y		
White (15)	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	≥ 15	
Gold (68)	0.375	0.405	0.405	0.445	0.438	0.412	0.399	0.381	18	30
Yellow (18, 44)	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	12	30
Orange (17)	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404	7	25
Red (12)	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346	2.5	11
Green (27)	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771	2.5	11
Blue (23)	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216	1.0	10

* 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 – Minimum Coefficient of Retroreflection

Observation Angle	Coefficient of Retroreflection (cd/lx/m ²)			
	0.2°		0.5°	
Entrance Angle	-4°	30°	-4°	30°
White (15)	460	250	100	65
Gold (68)	425	230	90	60
Yellow (18, 44)	310	165	70	45
Orange (17)	185	100	40	25
Red (12)	75	60	25	15
Green (27)	75	60	25	15
Blue (23)	35	20	10	5



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