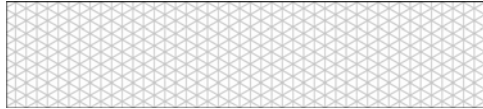


Product Bulletin

Reflexite® Daybright V92 Conspicuity Sheeting



The Product

Reflexite Daybright V92 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, school buses, farm equipment, automobiles and all types of mobile and industrial equipment.

Construction

Reflexite Daybright V92 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.

Colors

Reflexite Daybright V92 Conspicuity Sheeting is available in white, gold, yellow, orange, red, green, and blue colors featuring Reflexite 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 Daybright V92 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.

TABLE 1
COLOR SPECIFICATION LIMITS

Chromaticity Coordinates*										
Color	1		2		3		4		Luminance Factor (Y%)	
	x	y	X	y	x	y	x	y	Min.	Max.
White	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	27.0	----
Gold	0.375	0.405	0.405	0.445	0.438	0.412	0.399	0.381	18.0	30.0
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	15.0	45.0
Orange	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404	14.0	30.0
Red	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346	2.5	12.0
Green	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771	3.0	9.0
Blue	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216	1.0	10.0

* 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*
(Candelas/Lux/Square Meter)

Observation Angles	Entrance Angles	White	Gold	Yellow	Orange	Red	Green	Blue
0.2 °	-4 °	460	425	310	185	75	75	35
	30 °	250	230	165	100	60	60	20
0.5 °	-4 °	100	90	70	40	25	25	10
	30 °	65	60	45	25	15	15	5

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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 one-inch wide strip shall support a 1-3/4 pound weight for five minutes without the strip peeling a distance of more than two inches when applied to a smooth aluminum surface.

Impact Resistance

Following application to a smooth surface aluminum rectangle, 0.020 inch by 3 inch by 6 inch, the specimen is conditioned for 24 hours at 72°F and 50% relative humidity. The sheeting shall show no cracking when the face of the panel is subjected to an impact of a two pound weight with a 5/8 inch rounded tip dropped from a 100 inch pound setting on a Gardner variable impact tester, IG-1120.

Shrinkage

A 9 inch by 9 inch specimen of the sheeting with liner is conditioned a minimum of one hour at 72°F 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 in 10 minutes and 1/8 inch in 24 hours.

Flexibility

The sheeting is conditioned for 24 hours at 72°F 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 diameter mandrel with the adhesive contacting the mandrel.

Solvent Resistance

Reflexite V92 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

Material should be applied to a smooth, clean, dry surface at temperatures ranging from 50°F to 100°F.

Durability

5 years

Warranty

5 year limited warranty
Contact your Reflexite representative for details.

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Technical Publication RA-2218 Rev. 2, Pub. 1998 © 2006, Reflexite Americas