

## Product

Reflexite V98 Conformable Graphic Sheeting is a tough weather and solvent resistant product designed for rugged outdoor use for graphic applications on emergency services vehicles. The material is die cuttable and plotter cuttable, and easy to apply to smooth painted or unpainted vehicle surfaces. The single layer product does not require edge sealing, and is designed to be applicator friendly due to the potential to template fewer pieces than other prismatic graphic films.

## Construction

Reflexite V98 Conformable Graphic 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 material is not more than 0.018" thick, and comes with an aggressive high-tack pressure sensitive adhesive.

## Color

Reflexite V98 Conformable Graphic Sheeting is available in white, yellow, red, blue, green, fluorescent lime, fluorescent yellow and fluorescent orange. The color shall be located in the area defined by the chromaticity coordinates and luminance factor provided in Table I, when measured in accordance with the provisions of CIE No. 15.2. The four pairs of coordinates determine the acceptable color when measured with standard illuminant D65 using a Hunter ColorFlex.

## Reflectivity

Typical values for the coefficient of retroreflection for Reflexite V98 Conformable Graphic Sheeting are shown in Table II when illuminated with CIE standard illuminant A and measured with the provisions of CIE No.54.2. 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 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

## Application Instructions

Material must be applied when the air and surface temperature is between 50-82°F to ensure proper adhesive bonding. Surfaces must be cleaned of all grease, oil, dirt etc. Use a clean cloth and Isopropyl alcohol, or similar, to wipe the surface before application. If any air bubbles are trapped, use a pin to puncture the bubble and a squeegee to push the air towards the pin hole. Please contact Reflexite for complete application instructions.

## 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 or delamination outside the actual area of impact 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 shall be conditioned a minimum of 1 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 must 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 V98 Conformable Graphic Sheeting meets the solvent resistance requirements of LS-300C solvent resistance, section 3.6.7, when tested as specified in Table VI, test method 4.6.6.

than two inches when applied to a smooth aluminum surface.

**Table 1**  
**Color Specification Limits**

Color	Chromaticity Coordinates*								Luminance Factor (Y%)	
	1		2		3		4		Min.	Max.
	x	y	x	y	x	y	x	y		
<b>White</b>	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	27	---
<b>Yellow</b>	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	15	45
<b>Green</b>	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771	3.0	12
<b>Red</b>	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346	2.5	15
<b>Blue</b>	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216	1.0	10
<b>FI Lime</b>	0.387	0.610	0.369	0.546	0.428	0.496	0.460	0.540	60	---
<b>FI Yellow</b>	0.479	0.520	0.446	0.483	0.512	0.421	0.557	0.442	40	---
<b>FI Orange</b>	0.583	0.416	0.535	0.400	0.595	0.351	0.645	0.355	20	---

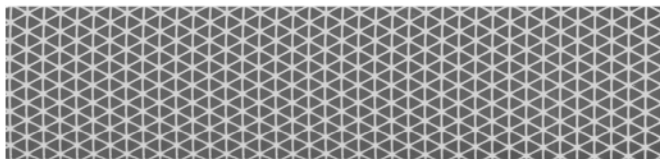
\* The four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE diagram.

**Table 2**  
**Coefficient of Retroreflection (R')**

Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	FI Lime	FI Yellow	FI Orange
<b>0.2°</b>	-4°	750	525	130	130	55	420	295	200
	30°	375	260	65	65	25	200	145	100
	45°	120	85	20	20	8	70	45	30
<b>0.33°</b>	-4°	375	260	65	65	25	200	145	100
	30°	185	130	32	32	13	100	75	50
	45°	60	40	10	10	4	35	25	20
<b>0.5°</b>	-4°	110	80	20	20	8	65	45	45
	30°	60	45	10	10	4	33	23	20
	45°	20	14	4	4	1.3	10	7	8
<b>1.0°</b>	-4°	28	20	5	5	2	15	11	8
	30°	14	10	2	2	1	8	5	4
	45°	4	3	---	---	---	2	2	2

\*Candelas/Lux/Square Meter

**Film Logo Pattern**



**Warranty**

Reflexite® V98 has a 5 year warranty. Please contact Reflexite for full details.

**IMPORTANT NOTICE**

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