

Product Data Sheet

Type: LZT9600

Product Description:

High-intensity prismatic retroreflective film utilizes a multi-layer architecture with a weather-resistant surface, precision microprismatic optics (cube-corner/hexagonal arrays), and a dielectric/metallic reflective interface. Integrated through UV-stable adhesion and a protective liner, its graded prism geometry enables retroreflection via optimized light path control, ensuring durability, chemical resilience, and thermal stability.

1. Color: white, yellow, orange, red, green, blue, brown, fluorescence
2. Size: 1.22m x 45.72m
3. Type: ASTM D4956 Type IV
4. Service life: 10 years
5. Surface material: PMMA
6. Product thickness: $365\mu\pm 5$ (except release material)
7. Release material: anti-adhesive film
8. Adhesive type: pressure sensitive adhesive
9. Operating temperature: $18^{\circ}\text{C} \sim 28^{\circ}\text{C}$
10. Use temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$

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" (50 mm) strip shall support a 1 3/4 pound (0.79 kg) weight for 5 minutes without the strip peeling for a distance of more than 2" (50 mm) when applied to a smooth aluminum surface as specified in the ASTM D4956, section 7.5 adhesion test.

Features:

- ❖ Omni-Directional
 - ❖ Microprismatic Retroreflective Performance
 - ❖ Good flexibility, simple and convenient construction.
 - ❖ Field proven long term durability on safety devices worldwide
- Wear-resistant, scratch-resistant, impact-resistant, wash-resistant,

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Chroma Performance:

Standard light source: D65

Lighting Observation Conditions: 45/0

Field of view: 2°

Color	Chromaticity coordinates								Brightness factor Y%
	x	y	x	y	x	y	x	y	
White	0.350	0.360	0.305	0.315	0.295	0.325	0.340	0.370	≥0.27
Yellow	0.545	0.454	0.494	0.426	0.444	0.476	0.481	0.518	0.15---0.45
Orange	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404	0.10---0.30
Red	0.735	0.265	0.681	0.239	0.579	0.341	0.655	0.345	0.02---0.15
Green	0.201	0.776	0.285	0.441	0.170	0.364	0.026	0.399	0.03—0.10
Blue	0.049	0.125	0.172	0.198	0.210	0.160	0.137	0.038	0.01---0.10
Fluorescent yellow	0.479	0.520	0.446	0.483	0.512	0.421	0.557	0.442	≥0.40
Fluorescent orange	0.583	0.416	0.535	0.400	0.595	0.351	0.645	0.355	≥0.20
Fluorescent yellow green	0.387	0.610	0.369	0.546	0.428	0.496	0.460	0.540	≥0.60

Retroreflective performance:

Observation angle	Angle of incidence	Minimum Retroreflection Coefficient $R_A / (cd \cdot lx^{-1} \cdot m^2)$									
		White	Yellow	Orange	Red	Green	Blue	Brown	Fluorescent yellow green	Fluorescent yellow	Fluorescent orange
0.2	-4°	600	360	170	90	80	55	60	500	500	180
	15°	265	202	106	48	38	22	13	212	160	78
	30°	170	135	68	30	25	14	8.5	135	100	50
0.5°	-4°	150	110	60	27	21	13	7.5	120	90	45
	15°	111	82	44	20	16	9.5	5.5	88	65	34
	30°	72	54	28	13	10	6.0	3.5	55	40	22
1°	-4°	35	26	12	5.2	4.0	2.0	1.0	28	22	11
	15°	28	20	9.4	4.1	3.0	1.5	0.8	22	17	8.5
	30°	20	15	6.8	3.0	2.0	1.0	0.6	16	12	6.0

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Application Instructions :

Material must be applied when the air and surface temperature is 65°F or above. Use a clean towel 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.

IMPORTANT NOTICE:

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