

HONEYCOMB PATTERN CONSPICUITY

KPT6

I. Description:

The KPT6 is a high quality, durable micro-prismatic retroreflective material. Its unique prismatic construction provides an extra high level of reflectivity for demanding traffic control situations. Exceeds applicable requirements for very high intensity grade sheeting applications for Types III and IV retroreflective sheeting as set forth in ASTM D 4956.

II. Construction:

Face Film: High Gloss
Adhesive: Permanent pressure-sensitive (class 1)
Liner: Film

III. Physical Properties:

Outdoor Durability: Warranted for 10 years (3 years for orange) when properly processed and applied.

**Minimum Surface/Ambient
Air Application Temperature:** 68°F (18°C) when applied with a squeeze roll applicator.

Application Surface: Flat surfaces only. Not recommended for unpainted Stainless Steel applications. Always pretest your specific substrate prior to application.
Note: Wet method of application not recommended.

**Service
Temperature Range:** -40° to 180°F (-40° to 82°C)

Film Caliper (w/adhesive): 17 to 18 mils

Shelf Life: One year when stored at the following temperature & humidity conditions 68° - 77°F (20° - 25°C) and 50±5% R.H.

Other tests:

Meets all other requirements set forth in ASTM D 4956 including shrinkage, flexibility, liner removal, adhesion, impact resistance, Specular gloss and Outdoor weathering (Types III and IV).

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IV. Photometric Performance

Exceeds Types III and IV values per ASTM D 4956. Minimum coefficient of retroreflection (RA)(cd/lx/m²)

Observation Angle	Entrance Angle	White	Yellow	Orange	Green	Red	Blue	Brown
0.1°	-4°	600	450	225	60	90	36	18
	30°	230	170	105	32	42	17	10
0.2°	-4°	400	300	155	45	60	25	12
	30°	165	120	72	25	30	12	9
0.5°	-4°	150	115	64	17	23	10	5
	30	70	52	26	10	10	5	4

Note: 0.1° Observation angle is a supplemental Requirement[®] in ASTM D-4956. It represent long highway viewing distances of about 275 meters (900 ft.) and greater.

Colors & Specification Limits (Daytime)^A:

Color	1		2		3		4		Luminanc (Y%)	
	x	y	x	y	x	y	x	y	Min	Max
White	.303	.300	.368	.366	.340	.393	.274	.329	40	--
Yellow	.498	.412	.557	.442	.479	.520	.438	.472	24	45
Orange	.558	.352	.636	.364	.570	.429	.506	.404	14	30
Blue ^B	.140	.035	.244	.210	.190	.255	.065	.216	1.0	10
Green ^B	.026	.399	.166	.364	.286	.446	.207	.771	3.0	12
Red	.648	.351	.735	.265	.629	.281	.565	.346	3.0	15
Brown	.430	.340	.610	.390	.550	.450	.430	.390	4.0	9.0

^AThe four pairs of chromaticity coordinates determine the acceptable color in terms of the CIE 1931 Standard Colorimetric system measured with Standard Illuminant D65. ^BThe saturation limit of green and blue may extend to the border of the CIE chromaticity locus for spectral colors.

Sign Mounting/Orientation

This prismatic sheeting does not require a special orientation for mounting and thus does not require an orientation arrow.

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