



"If you can imagine it, Nadco will make it stick."

R100 (High Intensity Grade Reflective)

Description: High Intensity Grade Reflective Sheeting 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. Meets applicable requirements for high intensity grade sheeting applications for Types III and IV retroreflective sheeting as set forth in ASTM D 4956 (table below).

Construction:

Face Film: High Gloss
 Adhesive: Permanent Pressure Sensitive (Class 1)
 Liner: Film

Photometric Performance:

Types III and IV values per ASTM D 4956. Minimum Coefficient of Retroreflection (R_A) (cd / lx / m²)

Observation Angle	Entrance Angle	White	Yellow	Orange	Green	Red	Blue	Brown
0.1"	-4	400	270	160	56	56	32	14
	30	180	120	72	32	32	14	10
0.2"	-4	250	170	100	45	45	20	12
	30	150	100	60	25	25	11	8.5
0.5	-4	135	100	64	17	17	10	5.0
	30	65	45	25	10	10	5.0	3.5

Note: 0.1" Observation angle is a Supplemental Requirement^A in ASTM D-4956. It represents long highway viewing distances about 275 Meters (800ft.) and greater.

Colors & Specification Limits (Daytime)^A:

Color	1		2		3		4		Luminance (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	40	--
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	24	45
Orange	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404	14	30
Blue ^B	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216	1.0	10
Green ^B	0.026	0.390	0.166	0.364	0.286	0.446	0.207	0.771	3.0	12
Red	0.618	0.351	0.735	0.266	0.629	0.281	0.565	0.346	3.0	15
Brown	0.430	0.340	0.610	0.390	0.550	0.450	0.430	0.390	4.0	9.0

^AThe hour 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.

Other Specifications:

Consult your representative for information concerning additional world-wide specifications.



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R100 (CONTINUED)

Physical Properties:

Outdoor Durability	R100 is warranted for 10 years (3 years for orange) when properly processed and applied.
Minimum Surface & Ambient Air Application Temperature	65° F (18° C) when applied with a squeeze roll applicator
Application Surface	Flat surfaces only. Not recommended for unpainted stainless steel. Always pretest your specific substrate prior to application. Note: Wet method of application is not recommended for R-100 reflective sheeting.
Service Temperature Range	-40° F to 180° F (-40° C to 82° C)
Typical Film Caliper (w/adhesive)	17 to 18 mils
Shelf Life	One year when stored at the following temperature and conditions 68° - 77° F (20° - 25° C and 50% +/- 5% +/-R.H.
Other Tests:	R-100 meets all other requirements set forth in ASTM D 4956 including Skrinkage, Flexibility, Liner removal, Adhesion, Impact resistance, Specular gloss, and Outdoor weathering (Types III and IV).