



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

R400 or R300 (Engineer Grade Reflective)

Description: Engineer Grade Reflective Sheeting is a high-quality, durable enclosed lens retroreflective material. This reflective sheeting offers exceptional value for permanent traffic signage applications. Meets applicable requirements for engineer grade sheeting application for Type I retroreflective sheeting as set forth in ASTM D 4956-99.

Construction:

Face Film: High Gloss
 Adhesive: Permanent Pressure Sensitive (Class 1)
 Liner: White Polyethelene Coated Paper StaFlat

Warranted Photometric Performance:

Types I values per ASTM D 4956-99. Minimum Coefficient of Retroreflection (R_A) (cd / lx / m²)

Observation Angle	Entrance Angle	White	Yellow	Orange	Green	Red	Blue	Brown
0.2"	-4	70	50	25	9	14	4	1.0
	30	30	22	7	3.5	6	1.7	0.3
0.5	-4	30	25	13	4.5	7.5	2.0	0.3
	30	15	13	4	22	3.0	0.8	0.2

Colors & Specification Limits (Daytime):

Color	1		2		3		4		Luminance (Y%)	
	X	Y	X	Y	X	Y	X	Y	Min.	Max.
White	0.303	0.287	0.368	0.353	0.340	0.380	0.274	0.316	27	--
Yellow	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	15	45
Orange	0.550	0.360	0.630	0.370	0.581	0.418	0.516	0.394	14	30
Blue	0.144	0.030	0.244	0.202	0.190	0.247	0.066	0.208	2.0	10
Green	0.030	0.380	0.166	0.346	0.286	0.428	0.201	0.776	3.0	9
Red	0.613	0.297	0.708	0.292	0.636	0.364	0.558	0.352	2.5	12
Brown	0.430	0.340	0.430	0.390	0.550	0.450	0.610	0.390	4.0	9.0



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R400 or R300 (CONTINUED)

Physical Properties:

Outdoor Durability	R400 or R300 are warranted for 7 years (3 years for orange) when properly processed and applied.
Minimum Surface & Ambient Air Application Temperature	40° F (4° 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 R400 or R300 reflective sheeting.
Service Temperature Range	-40° F to 180° F (-40° C to 82° C)
Typical Film Caliper (w/adhesive)	4.5 to 5.5 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:	R400 or R300 meet all other requirements set forth in ASTM D 4956-99 including Skrinkage, Flexibility, Liner removal, Adhesion, Impact resistance, Specular gloss, and Outdoor weathering (Type I).