High Intensity Prismatic Grade

Series DM7600

DM7600 High Intensity Prismatic Grade Series is a non−metalized microprismatic lens reflective sheeting meets and exceeds the requirements of ASTM D4956 Type IV and EN12899 RA2. With the PMMA front film and its retroreflective system of sealed cells of air backed microprisms and using total internal reflection, DM 7600 series is highly reflective, durable and self−adhesive sheeting with great weather resistance. This product is designed to use on the permanent traffic signs, highway traffic signs, crossing signs which require a long−term durability.
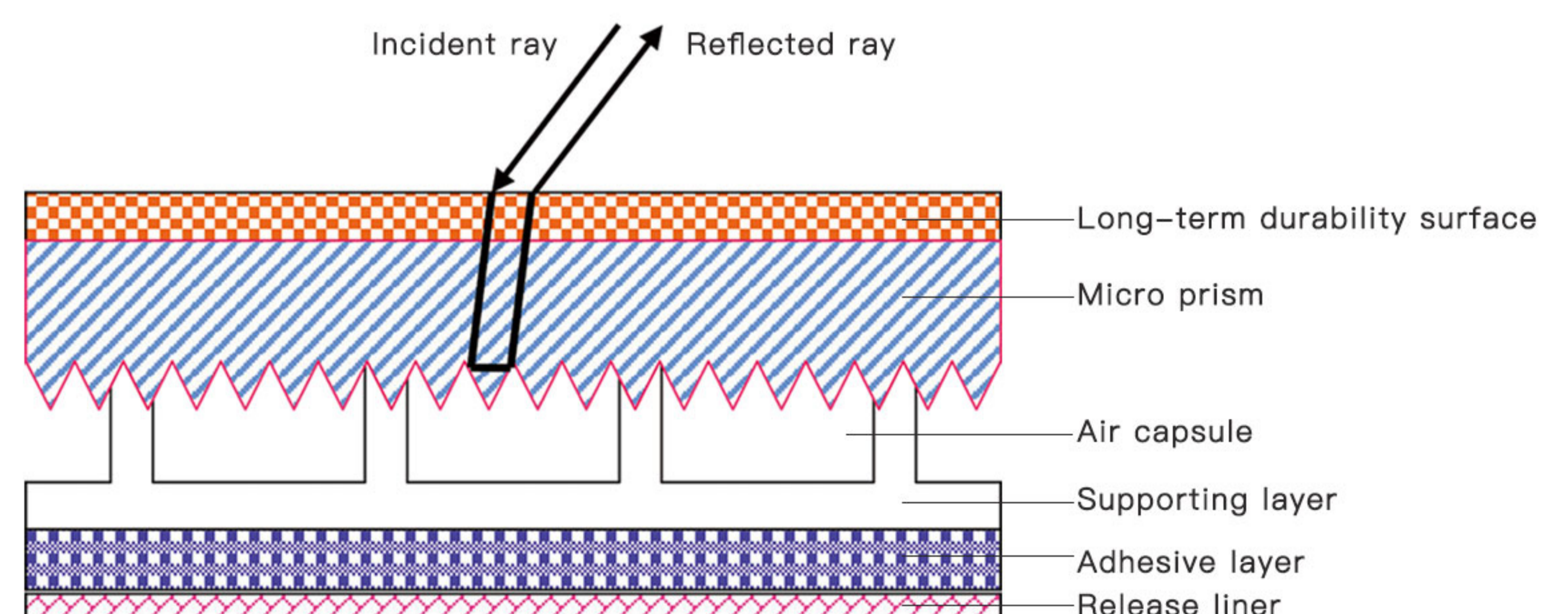
DM 7600 Series Sheeting Features

Properties: DM 7600 Series Sheeting has an sealed air cells system of microprisms with excellent retroreflectivity. The PMMA overlay provides the Sheeting a durability of more than 10 years. DM 7600 Series Sheeting is available in 9 colors.

Application: DM 7600 Series Sheeting meets the requirements of ASTM D4956 Type IV and EN12899 RA2. It can be applied to permanent traffic signs, highway traffic signs, crossing signs, ect.

Product Codes by Color

Color		Product Code
White	○	DM7601
Yellow	●	DM7602
Orange	●	DM7603
Red	●	DM7604
Green	●	DM7605
Blue	●	DM7606
Brown	●	DM7607
Fluo-Yellow Green	●	DM7610
Fluo-Orange	●	DM7620

Incident ray | Reflected ray

Long−term durability surface
Micro prism
Air capsule
Supporting layer
Adhesive layer
Release liner

Retroreflectivity

DM7600 series exceeds the minimum performance requirements of EN12899 RA2 and ASTM D4956 Type IV. The required minimum retroreflection is shown in table 1 and table 2 below:

Retroreflection for new sheeting (cd/lx/㎡) as per ASTM D4956 Type IV

Table 1 - Specific coefficient of retroreflection (cd/lx/㎡)						
Observation angle	0.1°		0.2°		0.5°	
Entrance angle	-4°	30°	-4°	30°	-4°	30°
White ○	500	240	360	170	150	72
Yellow ●	380	175	270	135	110	54
Orange ●	200	94	145	68	60	28
Red ●	90	42	65	30	27	13
Green ●	70	32	50	25	21	10
Blue ●	42	20	30	14	13	6
Brown ●	25	12	18	8.5	7.5	3.5

Color specification limits and daytime luminance factor data

Table 2 - Chromaticity coordinates (ASTM D4956(typeIV))									
Colour	1		2		3		4		Luminance Factor (Y%)
	x	y	x	y	x	y	x	y	
White ○	0.303	0.300	0.368	0.366	0.340	0.393	0.274	0.329	＞27
Yellow ●	0.498	0.412	0.557	0.442	0.479	0.520	0.438	0.472	15≤Y≤45
Orange ●	0.558	0.352	0.636	0.364	0.570	0.429	0.506	0.404	10≤Y≤30
Red ●	0.648	0.351	0.735	0.265	0.629	0.281	0.565	0.346	2.5≤Y≤15
Green ●	0.026	0.399	0.166	0.364	0.286	0.446	0.207	0.771	3≤Y≤12
Blue ●	0.140	0.035	0.244	0.210	0.190	0.255	0.065	0.216	1≤Y≤10
Brown ●	0.430	0.340	0.610	0.390	0.550	0.450	0.430	0.390	1≤Y≤9

Adhesive Application

DM7600 High Intensity Prismatic Grade series sheeting is recommended to use on the aluminium and steel boards. When used on a High–density polyethylene (HDPE) surface or PP surface, different kinds of adhesives for these surfaces can be offered.

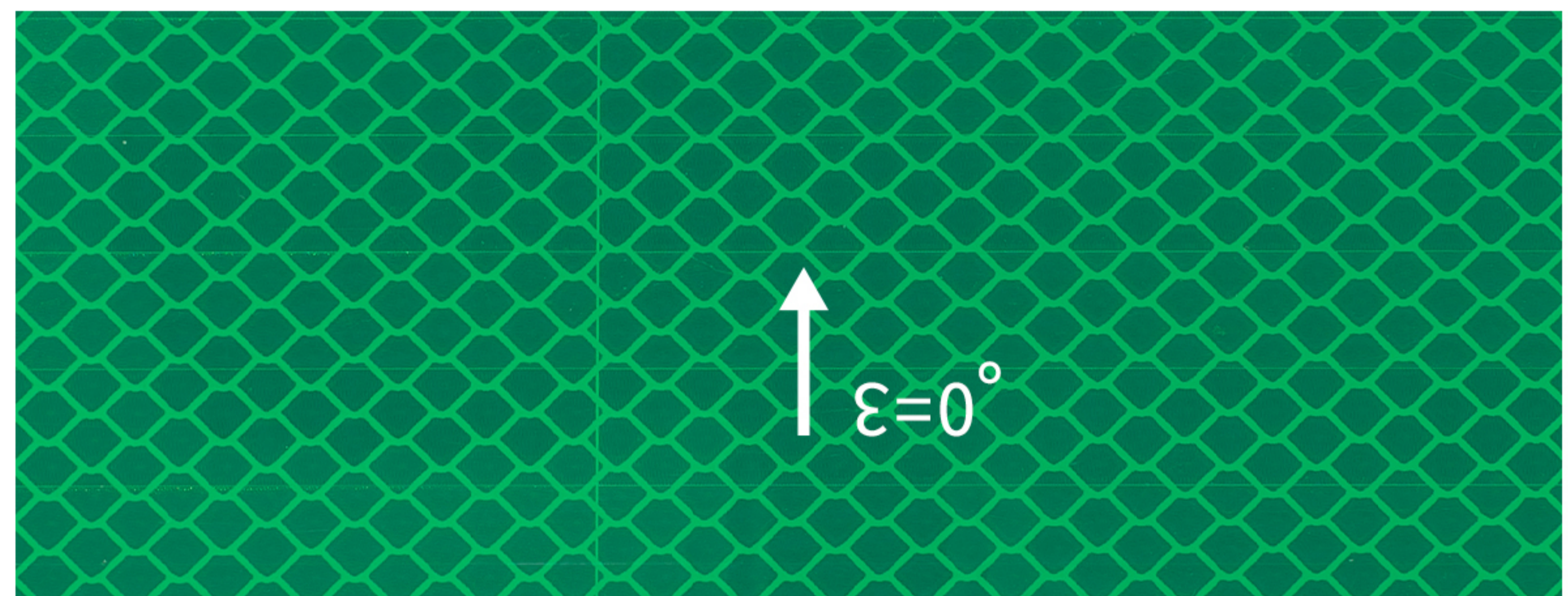## Daytime colour specificationlimits for new sheeting

DM7600 High Intensity Prismatic Grade series sheeting meets ASTM D4956 Type IV, AS/NZS 1906. 1:2017 Class 400, KS A3507 Type IV, ETA.

Entrance Angularity Performance and Orientation

DM7600 High Intensity Prismatic Grade series sheeting has a wide angle reflectivity. However, the efficiency of light return from cube corner reflectors is not equal at all application orientations. DM7600 series is recommended to apply at 0°orientation. See the picture below for details.

Roll Details

Length	1.22m(48")
Width	45.7m(50 yards)
Weight	32kg(71lb)
Box dimensions	1.31*0.26*0.26m
Thickness (without release paper)	0.405mm(16mils)
Adhesion	15N/25mm (FINAT TM1, after 24h, Aluminum plate)
Applicable Printing Solutions	Digital (UV, Eco Solvent, Latex) Screen Printing, Cylinder Printing
Service life	≥10 years

ε=0°

	PRODUCT DETAILS				APPLICATION			SUBSTRATE		PRINTABLE		
GRADE	PRODUCT CODE	SUBSTRATE	COLOUR (Other is available)	PRODUCT LIFESPAN YEARS	TEMPORARY SIGNAGE	ADVERTISING SIGNAGE	PERMANENT SIGNAGE	TEARABLE	NON–TEARABLE	CYLINDER PRINTABLE	SCREEN PRINTABLE	DIGITAL PRINTABLE
Engineer Prismatic	DM5600	PMMA	○●●● ●●	7	√		√		√	√	√	√
Engineer Grade	DM7200	Acrylic	○●●● ●●●●	5	√	√		√		√	√	√
Platinum Grade	DM7900	PMMA	○●●● ●●●● ●●	10			√		√	√	√	√
ElectrCut Film	DM1700	PMMA	○●●● ●	10								
Commercial Grade	DM5200	Acrylic	○●●● ●●●●	5	√	√		√		√	√	√