



Platinum Grade Prismatic

Series DM7900

DM7900 Platinum Grade Prismatic Series is a non-metallized microprismatic lens reflective sheeting meets and exceeds the requirements of ASTM D4956 Type XI and EN12899 RA3. With the PMMA front film and its retroreflective system of sealed cells of air backed microprisms and using total internal reflection, DM 7900 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 that require a long-term durability.

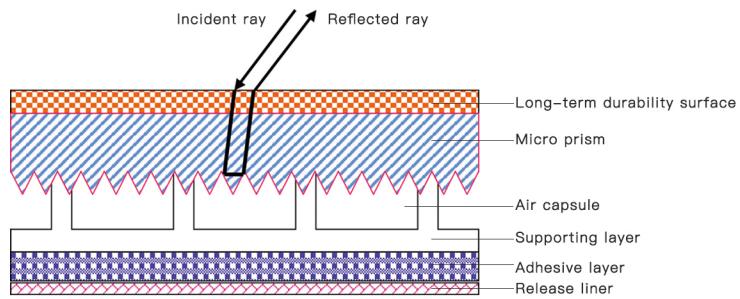
Product Codes by Color

Color	Product Code
White	DM7901
Yellow	DM7902
Orange	DM7903
Red	DM7904
Green	DM7905
Blue	DM7906
Brown	DM7907
Fluo-Yellow Green	DM7910
Fluo-Orange	DM7920

DM 7900 Series Sheeting Features

Properties: DM7900 Series Sheeting has a sealed air cells system of microprisms with excellent retroreflectivity. The PMMA overlay provides the Sheeting a durability of more than 10 years. DM7900 Series Sheeting is available in 9 colors

Application: DM7900 Series Sheeting meets the requirements of ASTM D4956 Type XI and EN12899 RA3 design C. It can be applied to permanent traffic signs, highway traffic signs, etc.



Retroreflectivity

DM7900 series exceeds the minimum performance requirements of ASTM D4956 Type XI and EN12899 RA3 design C. The required minimum retroreflection is shown in table 1 and table 2 below:

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

Table 1- Specific coefficient of retroreflection (cd/lx/m ²)						
Observation angle	0.2°		0.5°		1°	
Entrance angle	-4°	30°	-4°	30°	-4°	30°
White ○	580	220	420	150	120	45
Yellow ●	435	165	315	110	90	34
Orange ●	200	77	150	53	42	16
Red ●	58	33	63	23	18	7.0
Green ●	87	22	42	15	12	5.0
Blue ●	26	10	19	7.0	5.0	2.0
Brown ●	17	7.0	13	5.0	4.0	1.0

Daytime colour specification limits for new sheeting

Colour	Table 2- Chromaticity coordinates (DIN6171:2003-08)								Luminance Factor β
	1		2		3		4		
x	y	x	y	x	y	x	y		
White ○	0.355	0.355	0.305	0.305	0.285	0.325	0.335	0.375	>0.35
Yellow ●	0.522	0.477	0.470	0.440	0.427	0.483	0.465	0.534	>0.27
Red ●	0.735	0.265	0.674	0.236	0.569	0.341	0.655	0.345	≥0.05
Green ●	0.007	0.703	0.248	0.409	0.177	0.362	0.026	0.399	≥0.04
Blue ●	0.078	0.171	0.150	0.220	0.210	0.160	0.137	0.038	≥0.01

Adhesive Application

DM7900 Platinum Grade Prismatic 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.

Specifications for New Sheeting

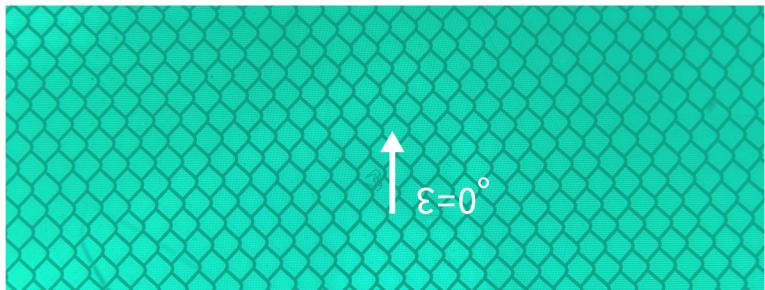
DM7900 Platinum Grade Prismatic series sheeting meets ASTM D4956 XI, AS/NZS 1906. 1:2017 Class 1100, KS A3507 Type 11.

Entrance Angularity Performance and Orientation

DM7900 Platinum Grade Prismatic series sheeting has a wide angle reflectivity. However, the efficiency of light return from cube corner reflectors is not equal at all application orientations. DM7900 series are 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



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
High Intensity Grade	DM7600	PMMA	○ ● ○ ○ ● ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	10			✓		✓	✓	✓	✓
	DM5600	PMMA	○ ○ ○ ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	7			✓		✓	✓	✓	✓
Engineer Grade	DM7200	Acrylic	○ ○ ○ ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	5	✓	✓		✓		✓	✓	✓
	DM5200	Acrylic	○ ○ ○ ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	5	✓	✓		✓		✓	✓	✓
ElectrCut Film	DM1700	PMMA	○ ○ ○ ○ ○ ○ ● ● ● ● ● ● ○ ○ ○ ○ ○ ○	10								