



Engineering Grade Prismatic

Series DM5600

DM5600 Engineering Grade Prismatic Series is a non-metalized microprismatic lens reflective sheeting meets and exceeds the requirements of ASTM D4956 Type I and EN12899 RA1. With the PMMA front film and its retroreflective system of sealed cells of air backed microprisms and using total internal reflection, DM 5600 series is highly reflective, durable and self-adhesive sheeting with great weather resistance. This product is designed to use on the permanent traffic signs, crossing signs, street signs which require a long-term durability.

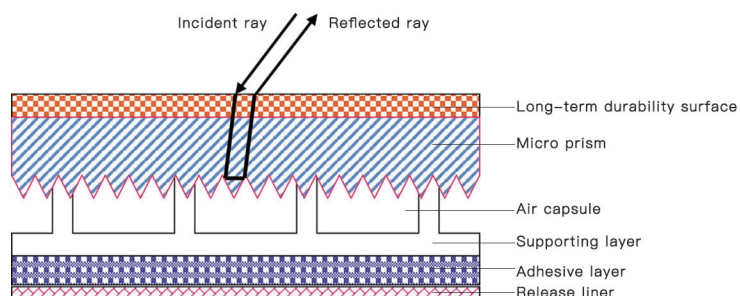
DM 5600 Series Sheeting Features

Properties: DM5600 Series Sheeting has an sealed air cells system of microprisms with excellent retroreflectivity. The PMMA overlay provides the Sheeting a durability of more than 7 years. DM5600 Series Sheeting is available in 7 colors

Application: DM5600 Series Sheeting meets the requirements of ASTM D4956 Type I and EN12899 RA1. It can be applied to permanent traffic signs, crossing signs, street signs, etc

Product Codes by Color

Color		Product Code
White	○	DM5601
Yellow	●	DM5602
Orange	●	DM5603
Red	●	DM5604
Green	●	DM5605
Blue	●	DM5606
Brown	●	DM5607



Retroreflectivity

DM5600 series exceeds the minimum performance requirements of EN12899 RA1 and ASTM D4956 Type I. 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 I

Table 1- Specific coefficient of retroreflection (cd/lx/m ²)						
Observation angle	0.2°		0.5°		20°	
Entrance angle	-4°	30°	-4°	30°	-4°	30°
White ○	70	30	30	15	50	24
Yellow ●	50	22	25	13	35	16
Orange ●	25	7	13	4.0	20	8
Red ●	9	3.5	4.5	2.2	10	4
Green ●	14	6.0	7.5	3.0	7.0	3.0
Blue ●	4	1.7	2.0	0.8	2.0	1.0
Brown ●	1	0.3	0.3	0.2	0.6	0.2

Daytime colour specification limits for new sheeting

Table 2- Chromaticity coordinates (DIN6171:2003-08)									
Colour	1		2		3		4		Luminance Factor β
	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

DM5600 Engineering 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

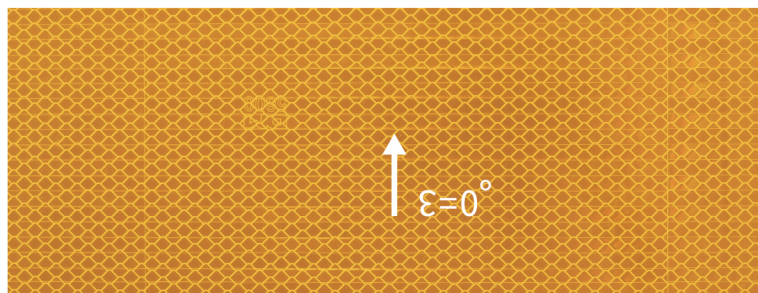
DM5600 Engineering Grade Prismatic series sheeting meets ASTM D4956 I, AS/NZS 1906. 1:2017 Class 100, KS A3507 Type 1.

Entrance Angularity Performance and Orientation

DM5600 Engineering 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. DM5600 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	≥ 7 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			✓		✓	✓	✓	✓
	DM7900	PMMA		10			✓		✓	✓	✓	✓
Engineer Grade	DM7200	Acrylic		5	✓	✓		✓		✓	✓	✓
	DM5200	Acrylic		5	✓	✓		✓		✓	✓	✓
ElectrCut Film	DM1700	PMMA		10								