



## Engineering Grade Prismatic

DM5600 Engineering Grade Prismatic Series is a non-metallized 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.

### Product Codes by Color

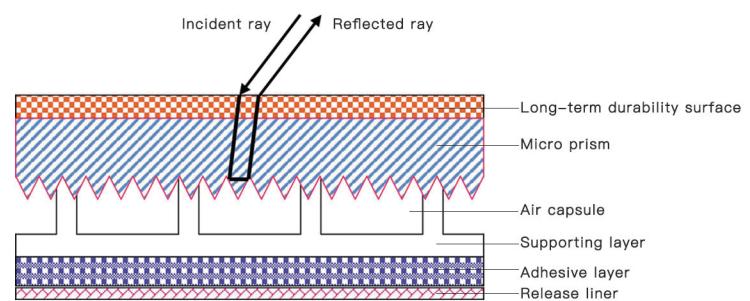
Color	Product Code
White	DM5601
Yellow	DM5602
Orange	DM5603
Red	DM5604
Green	DM5605
Blue	DM5606
Brown	DM5607

## Series DM5600

### 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



## 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/m<sup>2</sup>) as per ASTM D4956 Type I**

Table 1- Specific coefficient of retroreflection (cd/lx/m <sup>2</sup> )						
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**

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

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

