

DM5600 Engineering Grade Prismatic reflective sheeting

Description

DM-Reflective films Series 5600 Engineer Grade Prismatic Reflective Sheeting are non-metalized microprismatic lens retroreflective sheeting designed for production of reflective commercial signs and noncritical traffic control signs that are exposed vertically in service. When applied to properly prepared sign substrates, Series 5600 sheeting provides long-term reflectivity and durability.

The reflective data and colours at daylight comply with the international specifications for reflective materials of this class, such as EN 12899-1 (Europe), DIN 67520 and DIN 6171 (Germany), BS 873: Part 6 (Great Britain), NFP 98-520 (France), SN 640878 (Switzerland), ASTM D 4956 (US), JIS Z 9117 (Japan).

Front material

PMMA resin

Release paper

Polypropylene film, silicone coated one side, 0.075 mm.

Adhesive

Solvent polyacrylate, permanent

Area of use

DM5600 was especially developed for the manufacture of traffic control and guidance signs, warning signs and information signs as well as for reflective lettering, numbers and symbols, which are intended for a long-term outdoor use. The DM5600 has an adhesive with an excellent adhesion on metallic surfaces as aluminium and zinc coated steel plate. If you need apply them on the other material such as PP, PE, HDPE and so on pls contact with DM sales team for support.

Printing method

The use of DM- Screen printing inks series 2600 is recommended.

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Colours-Daylight chromaticity and luminance factors.

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	$\geq 0,35$
Yellow	0.522	0.477	0.470	0.440	0.427	0.483	0.465	0.534	≥ 0.27
Orange	0.610	0.390	0.535	0.375	0.506	0.404	0.570	0.429	≥ 0.17
Red	0.735	0.265	0.674	0.236	0.569	0.341	0.655	0.345	≥ 0.05
Blue	0.078	0.171	0.150	0.220	0.210	0.160	0.137	0.038	≥ 0.01
Green	0.007	0.703	0.248	0.409	0.177	0.362	0.026	0.399	≥ 0.04

Minimum reflection data (unit: cd.lx-1.m-2)

Geometry of Measurements		colour					
α	β_1 ($\beta_2=0$)	white	yellow	red	green	blue	orange
12'	+5°	70	50	14.5	9	4	25
	+30°	30	22	6	3.5	1.7	10
	+40°	10	7	2	1.5	0.5	2.2
20'	+5°	50	35	10	7	2	20
	+30°	24	16	4	3	1	8
	+40°	9	6	1.8	1.2	#	2.2
2°	+5°	5	3	1	0.5	#	1.2
	+30°	2.5	1.5	0.5	0.3	#	0.5
	+40°	1.5	1.0	0.5	0.2	#	#

Indicates "Value greater than zero but not significant or applicable".

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Thickness:	260 micron
Temperature resistance:	adhered to aluminium, -56°C to +82°C
Salt-water resistance:	adhered to aluminium, after 100h/23°C no variation
Resistance to solvents and chemicals:	with expert application resistant to most oils grease, fuels, aliphatic solvents, weak acids, salts and alkalis
Resistance to cleaning agents:	adhered to aluminium, 8h in washalcalics (0,5% household cleaning agents) at room temperature and 65°C, no variation
Adhesive power:	15 N/25mm(FINAT TM 1, after 24h, Aluminum plate)
Shelf life:	1 year(in original packaging, at 20°C and 50% relative humidity)
Minimum application temperature:	> +15°C
Service life by specialist application:	10 years (not printed)

Attention:

Surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination which could affect the adhesion of the material. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure respectively. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. The selfadhesive reflective material can only be used for dry application. The low tensile strength of the material can make the removability of the reflective film more difficult. Furthermore the application information please contact DM sales for more details.

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