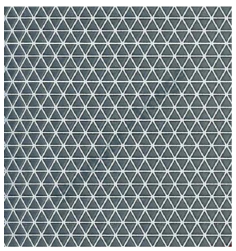
ORALITE® 5930M

Prismatic Construction Grade

ORALITE® 5930M Prismatic Construction Grade is a highly reflective and flexible reflective film of classes RA2 and HIP. It is ideal for traffic signs and guidance systems, and allows application on polyolefinic surfaces.

Reflective Properties

Cell structure:



Reflective Technology: Prismatic , Reflectivity classes: RA2, Reflective film structure: C, Metalisation: yes, Reflection norm: ORALITE® 5930M - Tabelle 1 (DIN 67520:2013-10 RA2; Aufbau C), ORALITE® 5930M - Tabelle 2 (DIN 6171: 2013-10 und ASTM D4956 (type IV), Tabelle 3)

Areas of Application

- Containers & refuse containers
- Construction sites
- Industry
- Traffic & transportation

Colours

ORALITE® 5930M is available in the following colours: White (F010), Yellow (F020), Red (F030), Green (F060)

Total thickness

- 0.36 mm (Average value, without protective paper)

Front material

Polymer PVC film

Liner

PE-coated paper on both sides, siliconised on one side, 100 g/m²

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Adhesive

Solvent-polyacrylate, permanent

Technical properties

RESISTANCE

Resistance to cleaning agents	No change	adhered on aluminium | 8 h in detergent solution (0.5 % household cleaner) at room temperature and 65 °C
Durability	5 Year(s)	with professional processing, with vertical outdoor weathering, central European normal climate
Shelf Life	1 Year(s)	in original packaging, at 20 °C and 50 % relative humidity
Temperature resistance	Minimum temperature -40 °C Maximum temperature 80 °C	adhered on aluminium

ADHESIVE PROPERTIES

Adhesive power	15 N/25 mm	after 24 h, on stainless steel | Average value, FINAT TM 1

PROCESSING

Recommended printing procedure	Screen printing	
Suitable substrate	Metals, Polyolefin substrates	
Application temperature	Minimum temperature 10 °C	

Table 1 - Specific coefficient of retroreflection R' in cd / (lx m²) (New condition; DIN 67520: 2013-10 RA2; Design C)

Observation Angle	0.20°			0.33°			2.00°		
Entrance angle	**5°**	**30°**	**40°**	**5°**	**30°**	**40°**	**5°**	**30°**	**40°**
White	250	150	110	180	100	95	5	2.5	1.5
Yellow	170	100	70	120	70	60	3	1.5	1
Red	45	25	15	25	14	13	1	0.4	0.3

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Observation Angle	0.20°			0.33°			2.00°		
Entrance angle	**5°**	**30°**	**40°**	**5°**	**30°**	**40°**	**5°**	**30°**	**40°**
Green	45	25	12	21	12	11	0.5	0.3	0.2

Table 2 - Chromaticity coordinates (Colour specification limits at daylight; New condition; DIN 6171: 2013-10 & ASTM D4956 (type IV))

Colours	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	□ 0.25
Yellow	0.545	0.455	0.487	0.423	0.427	0.483	0.465	0.535	□ 0.16
Red	0.735	0.265	0.674	0.236	0.569	0.341	0.655	0.345	□ 0.03
Green	0.007	0.703	0.248	0.409	0.177	0.362	0.026	0.399	□ 0.03

Certificates

- 5930M 12899_3 CE 1358_CPR_0160 DE.pdf (Download)
- DoP5930M.001.20220208-DE.pdf (Download)
- 5930M 12899_3 CE 1358_CPR_0160 EN-2.pdf (Download)
- Withdrawing of Certificate 1358-CPR-0160_1.pdf (Download)
- Certificatr_1358_CPR_0160_2.pdf (Download)
- DoP5930M.001.20220208-EN.pdf (Download)

PRODUCT NOTE

The substrate to be bonded must be free of dust, grease or other contamination, which can affect the adhesive strength of the material. Re-coatings must be completely cured. Plastic surfaces must be emission-free. To determine the compatibility we recommend performing application tests in advance with the foreseen substrates. For other application areas the user is responsible for testing and assessing whether the product is suitable and whether risks may arise from its use. The respective national provisions have to be considered for the application. For detailed information, please contact the responsible ORAFOL Reflective Solutions Division representative. All ORALITE® products have been manufactured in a production process certified in accordance with ISO 9001:2015. The batch can be traced at any time by means of the roll number.

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IMPORTANT NOTES

Relevant national specifications have to be observed when using films of the ORALITE® series. ORAFOL recommends that you obtain the current specifications from your local authority and ensure that the product complies with them. For further information, please contact ORAFOL directly. All ORALITE® products are subject to thorough quality control during the entire manufacturing process. It is ensured that they are of merchantable quality and free from manufacturing defects. The information published on the ORALITE® products is based on research results which the company considers to be reliable, but which do not constitute a guarantee. Because of the wide range of possible uses of ORALITE® products and the continuous development of new applications the buyer should carefully check the suitability and performance of the product for the respective purpose and bear all risks connected with this use. All specifications may be changed without advance notice. Any warranty is excluded for applications which are not listed in the Technical Data sheet or which are not performed in accordance with the processing guidelines set out by ORAFOL. The durability of the shields depends on a multitude of factors, such as for example the selection and preparation of the substrate, compliance with the recommended processing guidelines, the geographical application area, the weather conditions as well as the maintenance of the product and the finished shield. ORAFOL does not accept any liability for defects which can be traced back to an unsuitable substrate or inadequate surface preparation. You can find comprehensive information in the warranty document under www.orafol.com. ORALITE® is a trademark of ORAFOL Europe GmbH.

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