

Description

ORALITE® XP5200 Economy Grade is the PVC free extra performance alternative to ORAFOL's ORALITE® 5200 series. It is a tough weather and solvent resistance product which boasts high flexibility combined improved corrosion resistance, even under tough outdoor conditions. Its smooth and scratch resistant surface is made from a high-performance cast PU. ORALITE® XP5200 is composed of glass beads embedded in a transparent layer of PVC free plastic material.

Front Material

Special cast polyurethane film.

Release Paper

PE-coated silicone paper. Product codes and batch numbers are printed on the backside of the liner. With help of these, all production parameters and raw materials can be traced.

Adhesive

Solvent polyacrylate, permanent.

Area of Use

ORALITE® XP5200 Economy Grade was especially developed for the manufacture of information signs as well as for reflective advertising art, which are intended for a short-term outdoor use and which require just a minimum of retro-reflection. The smooth surface shows a high scratch resistance and impact strength, and a very good printability. Problem-free printing using solvent-based inkjet printing and excellent processing on cutting plotter systems.

The sheeting can be screen printed with ORALITE® 5018 Screen Printing Ink. Inkjet digital printing methods must be qualified by the applicator. Please refer to the chosen ink manufacturer's instructions to determine if an application laminate is required. If required, it is recommended that the material is laminated with ORAGUARD® 279 or ORAGUARD® 293F in order to provide increased UV protection.

ORALITE® XP5200 Economy Grade has excellent adhesion on metallic surfaces as aluminium and zinc coated steel plate.

Product Data

Typical Values for the coefficient of retroreflection (new sheeting, measured using CIE standard illuminant A, and the provisions of CIE No. 54.2, and according to EN 12899):

Table 1 – Specific coefficient of retroreflection in cd/(lx m²)				
Observation angle	0.2°		0.33°	
Entrance angle	5°	30°	5°	30°
white (010)	70	30	50	24

After product launch, ORALITE® XP5200 will exceed above minimum values of RA1 specification.

Colour specification limits at daylight (new sheeting, measured in accordance with CIE No. 15.2 and DIN 6171):

Table 2 – Colour coordinates									
Colours	1		2		3		4		Luminance factor β
	X	y	X	y	X	y	X	y	
white (010)	0.305	0.315	0.335	0.345	0.325	0.355	0.295	0.325	≥ 0.35

Physical and Chemical Properties

Thickness* (without protective paper)	100 micron (4.0 mils)
Temperature resistance**	Adhered to aluminium, -50° C to +82° C
Adhesive power* (FINAT-TM1 after 24h)	adhered to stainless steel: 15 N/25 mm (1 inch)
Shelf life**	1 year
Application Temperature	> +10° C
Service life by specialist application*** under vertical outdoor exposure	3 years (unprinted)

* average

** in original packaging, at 20° C and 50% relative humidity

***standard central European climate

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The durability of the end product depends upon a variety of factors, including but not limited to substrate selection and preparation, compliance with the recommended application guidelines, geographical area, exposure conditions and maintenance of the ORAFOL material and of the end product. Product defects caused by the substrate or improper surface preparation do not lie within ORAFOL's sphere of responsibility.

When using ORAFOL products, the pertinent national regulations are to be observed. ORAFOL recommends that you obtain the current stipulations from your local authority and ensure that the product meets these requirements. Please contact ORAFOL for further information.

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