

### **Description**

ORALITE® 5090 ANTI-DEW FILM is a self-adhesive transparent, specially treated acrylic film which has been developed for use on retroreflective films ORALITE® 5800/5810 HIGH INTENSITY GRADE. By specialist application the use of this film guarantees an undisturbed, even retro-reflection despite of bedewing of traffic signs.

When using ORALITE® 5090 ANTI-DEW FILM on ORALITE® reflective films 5800 / 5810 HIGH INTENSITY GRADE it is guaranteed that the reflective data and colors at daylight comply with the international specifications of this class such as EN 12899-1 (European Regulation), 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).

### **Surface**

Acrylic film

### **Adhesive**

Solvent polyacrylate, permanent, transparent

### **Release paper**

polyester film, silicone coated one side, reverse treated, 0.100 mm (0.004 in)

### **Area of use**

The surface of ORALITE® 5090 ANTI-DEW FILM is coated with a safety film which is to remove with clear water immediately after production of the traffic sign. A soft sponge is helpful for removing the safety film. The drying of the sign can be made by exposure to air or by a soft and clean cotton cloth.

During the application of ORALITE® 5090 ANTI-DEW FILM it is to be considered that overlapping of the film sheets must be avoided. If an overlapping application isn't avoidable the ORALITE® 5090 ANTI-DEW FILM must be slit in the overlapping region. In order to avoid air bubbles the slitting edges of the ORALITE® 5090 ANTI-DEW FILM are to be pressed on by a standard test roller.

ORALITE® 5090 ANTI-DEW FILM is developed for applying on ORALITE® SCREEN PRINTING INK, ORALITE® 5061 TRANSPARENT FILM or ORALITE® 5081 LETTERING FILM only.

The service life of the ORALITE® 5090 ANTI-DEW FILM is matched to the service life of the basic film (10 years).

The statements in this information sheet are based upon our knowledge and practical experience. This data is intended only as a source of information and is given without guarantee and does not constitute a warranty. Due to the wide variety of possible uses and applications customers should independently determine the suitability of this material for their specific purpose, prior to use.



**Technical data**

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<b>Thickness*</b> (without protective paper and adhesive)	60 micron (0.002 in)
<b>Dimensional stability</b> (FINAT TM 14)	applied on steel, no measurable shrinking in cross direction, in length direction 0.1 mm (0.0039 in)
<b>Temperature resistance</b>	adhered to aluminium, -56°C to +90°C (-69°F to 194°F)
<b>Salt-water resistance</b> (DIN 50021)	adhered to aluminium, after 100h at 23°C (74°F) no variation
<b>Resistance to solvents and chemicals</b>	with expert application resistant to most oils, grease, fuels, aliphatic solvents, weak acids, salts and alkalis
<b>Resistance to cleaning agents</b>	adhered to aluminium, 8h in washalcalics (0,5% household-cleaning agents) at room temperature and 65°C, no variation
<b>Adhesive power*</b> (FINAT TM 1, after 24h, stainless steel)	18 N/25mm (25mm = 0,98 in)
<b>Shelf life**</b>	2 years
<b>Application temperature</b>	> +10°C (+50°F)
<b>Service life by specialist application</b> under vertical outdoor exposure (standard central European climate)	10 years

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

**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. Furthermore the application information published by ORAFOL is to be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

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