

## Product description

ORALITE® 5019i UV Digital Printing Ink is a durable UV-hardening inkjet ink developed specially for producing traffic signs. It has been designed for use with any version of the ORALITE® UV Traffic Sign Printer and is compatible with many ORALITE® reflective films. Unlike conventional commercially available inks, the ORALITE® 5019i inks' colour range matches traffic colours, making them the ideal choice for any traffic sign anywhere in the world.

The product range of films for printing comprises ORALITE® reflective films for temporary or permanent traffic signs and for construction-site or roadworks markings. Graphics applications are also possible. Your ORAFOL dealer will supply you with the required printer settings and colour exceptions.

The printed material needs to be laminated with a suitable colourless, transparent ORALITE® film to obtain a smooth finish, good reflective properties and optimal durability. For recommended protective or functional laminating films, please refer to the data sheet for the ORALITE® reflective film you are using. For certain applications, black prints may also remain unlaminated.

## Colour

If you use ORALITE® 5019i UV Digital Printing Ink with the recommended materials and under the specified conditions, the printed signs will match the specifications for colour and luminance applicable to their class of reflective materials according to EN12899-1 and DIN 6171-1. The digital printing ink is available in the following traffic colours:

- ORALITE® UV Digital Printing Ink 5019i-020 yellow
- ORALITE® UV Digital Printing Ink 5019i-030 red
- ORALITE® UV Digital Printing Ink 5019i-050 blue
- ORALITE® UV Digital Printing Ink 5019i-060 green
- ORALITE® UV Digital Printing Ink 5019i-080 brown
- ORALITE® UV Digital Printing Ink 5019i-070 black (adjusted for opacity)

## Notes on use

### Safety

For detailed information and safety instructions, please refer to the safety data sheets.

### Storage

Keep closed containers in a lightproof container under the following conditions: 15 - 26°C; 40 - 60% rel. humidity. Shelf life is 18 months.

### Printing

In order to comply with the European and international minimum standards for reflectivity and colours, transparent UC digital printing inks may only be used on white (010) films. Other combinations of inks and reflective-film colour are possible, e.g. fluorescent substrate film with red or black print on any colour of substrate film. It is also necessary to select the correct printing profiles for the respective reflective film in the prepress stage.

ORALITE® 5019i UV Digital Printing Inks must be used only on an ORALITE® UV Traffic Sign Printer with the corresponding RIP software and the respective ORAFOL colour profiles.

### Laminating

The choice of protective film depends on the reflective film used, the performance properties expected and the durability required. For further details, please refer to the data sheets and instructions on use published by ORAFOL or get in touch with your ORAFOL contact.

### Recommended laminating films:

- ORALITE® 5051 Transparent Film
- ORALITE® 5061 Transparent Film
- ORALITE® 5062 Transparent Film
- ORALITE® 5090 Anti Dew Film
- ORALITE® 5095 Anti Graffiti Film
- ORALITE® 5097 Anti Sticker Film

The information in this data sheet is based solely on our current knowledge and experience. It is supplied for the purposes of information only and represents neither agreed properties nor a guarantee of any specific characteristics or properties nor a warranty of durability. In view of the multitude of factors with a potential to affect processing or use, we recommend that you conduct trials before using our products in custom application scenarios.

### IMPORTANT NOTICE

Always observe the applicable national specifications when using ORALITE® films. ORAFOL recommends that you obtain the currently valid specifications from the competent local authority and to ensure that the product complies with these. For further details, please get in touch with ORAFOL directly.

All ORALITE® products are subjected to meticulous quality testing throughout the entire production process and they are guaranteed to be supplied in customary commercial quality and without production defects. The information published on ORALITE® products is based on research findings that the company deems reliable, but that cannot serve as basis for asserting any warranty claims. Because ORALITE® products can be used in a multitude of ways, and because new applications continue to be developed constantly, purchasers should examine carefully whether the product is suitable for the respectively intended use and assume all responsibility for any risk arising from said use. All specifications are subject to change without prior notice.

No liability can be accepted in the case of applications not listed in the technical data sheet or which are executed without adhering to ORAFOL's processing instructions. The signs' durability depends on a multitude of factors, e.g. what substrate is used and how it is prepared, whether the recommended processing instructions are observed, the geographical location of use, weather conditions and maintenance performed on the product and finished sign. ORAFOL shall accept no liability for defects caused by an unsuitable substrate or inadequate surface preparation. For more detailed information, please refer to the warranty document published on [www.orafol.com](http://www.orafol.com).

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