

## Ri-Mark Optima

**PRODUCT DESCRIPTION / BENEFITS** Ri-Mark Optima films are the ideal choice for medium to long term internal and external applications. The high gloss polymeric films, UV stabilised, have an external colour stability up to 6 years. The water-based adhesive provides a good dimensional stability. The kraft liner is designed for trouble-free plotter cutting on a wide variety of computerised sign cutting equipment. For an easier stripping & weeding, the liner of white films is coated with a blue contrast silicone. All our products are REACH & RoHS compliant.

**TYPICAL USE**

- Medium to long term indoor and outdoor advertising
- Directional Signage

**CONSTRUCTION**

- **Face film:** 75 µm calendered polymeric film
- **Adhesive:** permanent clear water-based acrylic
- **Release liner:** clay coated kraft paper 120 g/m<sup>2</sup>, grey back printed.

**CONVERTING METHOD** Specially developed for trouble-free plotter cutting on a wide variety of computerised sign cutting equipment. Printable by thermal transfer method.

**APPLICATION METHOD / INSTRUCTIONS FOR USE** Ri-Mark Optima films are suitable for flat and slightly convex surfaces. For deep concave surfaces or with corrugations, the film should be cut and applied with an overlap. Suitable for dry and wet application method on clean and degreased substrates. In case of wet application on windows, the adhesive may become whitish just after film installation, and will turn back clear once water is dried. Application temperature above 10°C.

**EXPECTED DURABILITY** The expected vertical outdoor durability in Central Europe (zone 1) is:

- 6 years for white & black films
- 5 years for coloured films
- 5 years for metallic films

This information is based on real file experience and artificial aging according to ISO 4892-2. Note: Exposure to severe temperature and ultra-violet light will cause a quicker deterioration. This applies also to polluted area, high altitude, horizontal applications, and south-facing exposure in north hemisphere.

**SHELF LIFE** Shelf life is 2 years, when stored at 23 °C and 50 % relative humidity conditions. Higher temperatures and/or humidity levels will reduce product shelf life.

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### PHYSICO-CHEMICAL PROPERTIES / TYPICAL VALUES

Face thickness, without adhesive	75 µm	ISO 534-80
Face thickness, with adhesive	95 µm	ISO 534-80
Tensile strength (machine direction)	> 13 N/cm	ISO 527
Elongation at break (machine direction)	>150%	ISO 527
Fire resistance on aluminium	Self-extinguishing	ISO 3795:1989
Dimensional stability (1 week @70 °C on glass)	0,4 mm	FTM 14
Initial adhesion on glass (20 minutes)	10 N/25mm	FTM 1
Adhesion on glass (24 hours)	13 N/25mm	FTM 1
Final adhesion on glass (1 week)	15 N/25mm	FTM 1
Minimum application temperature	+10 °C	
Service temperature	From -40 °C to +90 °C	
One side siliconized clay coated paper liner	120 g/m <sup>2</sup>	ISO 536

### QUALITY CERTIFICATION



### DISCLAIMER

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