

Ri-Wrap Iridium

PRODUCT DESCRIPTION / BENEFITS Ri-Wrap Iridium Series is a multi-layer premium cast vinyl designed for vehicle wrapping. Ri-Wrap Iridium Series is available in gloss, satin and matt finish. Its superior conformability allows application on 3D areas such as rivets, concave and convex surfaces. The Slide & Tack adhesive system allows to remove eventual air bubbles by pression. The initial adhesion remains very low during the first minutes (even after squeegeeing) providing great positioning, slide ability and repositioning during the film installation. All products are REACH & RoHS compliant.

TYPICAL USE

- Fleet wrapping
- Vehicle customisation
- Boat wrapping (above the water line)

CONSTRUCTION

- **Face film:** 110 µm multi-layer premium cast vinyl
- **Adhesive:** repositionable transparent solvent-based acrylic
- **Release liner:** Slide & Tack, micro-embossed PE coated kraft paper 160 g/m²

CONVERTING METHOD No need of lamination film, can directly be applied on vehicle surface.

APPLICATION METHOD / INSTRUCTIONS FOR USE Only suitable for dry application on clean and degreased surfaces at temperature above 15°C, ideally at 20°C. The vinyl needs to be heated at 35-40°C before being conformed to 3D areas. During application onto these 3D areas, considerable tension will be introduced in the material which is essential to release. This tension will be released by post-heating the material to 90°C. Without this stabilisation, the vinyl may pop-out of the recesses later. Adhesion build-up curve is low under 15°C. In wintertime, the wrapped car needs to remain inside premises at 20°C for 24 hours. If the car needs to be released outside earlier, we recommend to first warm-up all film surfaces to 35 - 40°C before moving the car outside.

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

- White & Black: 10 years
- Colours: 8 years
- Metallics: 5 years

This information is based on real life 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	110 µm	ISO 534-80
Total face thickness, with adhesive	140 µm	ISO 534-80
Tensile strength (machine direction)	> 20 N/cm	ISO 527
Elongation at break (machine direction)	> 200%	ISO 527
Dimensional stability (1 week @70 °C on glass)	0,3 mm	FTM 14
Initial adhesion on glass (20 minutes)	6 N/25mm	FTM 1
Adhesion on glass (24 hours)	12 N/25mm	FTM 1
Final adhesion on glass (1 week)	14 N/25mm	FTM 1
Minimum application temperature	+15 °C	
Service temperature	From -40 °C to +90 °C	
micro-embossed PE coated release liner	160 g/m ²	ISO 536
Humidity resistance	No effect	200 hours exposure
Water + detergent (1% solution)	No effect	24 hours immersion
Isopropyl alcohol / Water (20/80)	No effect	24 hours immersion
Gasoline resistance	No effect	30 minutes immersion

QUALITY CERTIFICATION



DISCLAIMER

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