FEDRIGONI

TECHNICAL DATA SHEET
ISSUE: 1
DATE: 28/04/2025

F-Guard C30 Ultra-Clear SB

PRODUCT DESCRIPTION / BENEFITS

F-Guard C30 Ultra-Clear SB series is an ultra-clear self-adhesive lamination film.
The transparent cast vinyl film, UV stabilised, has an external colour stability up to 6 years.
The ultra-clear permanent solvent-based adhesive adheres on vinyl printed with solvent, eco-solvent, latex and UV inks. The 36µm PET liner ensures product ultra-clarity.
Product REACH & RoHS compliant.

TYPICAL USE

- Vehicle graphics, Fleet wrapping – partial wraps & total wraps made with F-Print C50 Ultimate.
- Ultra-Clear windows graphics
- Long term outdoor and indoor lamination film for advertisings.
- Protect printed media from abrasion and retard colour fading
- Provide homogeneous gloss finish

CONSTRUCTION

- **Face film:** 30 µm ultra-clear cast vinyl film
- **Adhesive:** permanent transparent solvent-based acrylic
- **Release liner:** 36µm clear PET liner

Product:
Ultra-Clear Gloss: Code 60216 - **F-Guard C30 Ultimate Ultra-Clear Gloss Perm SB - UV Print N**

CONVERTING METHOD

Compatible with solvent, eco-solvent, latex and UV inks.
To be laminated with a laminator

APPLICATION METHOD / INSTRUCTIONS FOR USE

The printed media to laminate should dry minimum 24h prior to lamination.
Laminate without tension on the printed media.

EXPECTED DURABILITY

The expected vertical outdoor durability in Central Europe (zone 1) is 6 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	30 µm	ISO 534-80
Face thickness, with adhesive	55 µm	ISO 534-80
Tensile strength (machine direction)	> 8 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)	0,2 mm	FTM 14
Adhesion on glass - 20 minutes - 24 hours - 1 week	12 N/25mm 18 N/25mm 20 N/25mm	FTM 1
Minimum application temperature	+10 °C	
Service temperature	From -40 °C to +90 °C	
PET liner	36 µm	ISO 534-80
Humidity resistance	No effect	200 hours exposure
Water resistance	No effect	24 hours immersion
Detergent (1% solution)	No effect	24 hours immersion
Isopropyl alcohol / Water (20/80)	No effect	10 minutes immersion
Sporadic contact with hydrocarbons	No effect	5 minutes immersion

QUALITY CERTIFICATION

QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001

DISCLAIMER

Information on physico-chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use. All technical data are subject to change. All Fedrigoni products are sold subject to terms and conditions of sale. For more information, contact your Fedrigoni sales representative. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.