

# TuningFilm 900 BF – FlexChrome

## Technical Data Sheet

### PRODUCT DESCRIPTION

TF 900 FlexChrome BF is a 130µm bi-layer polymeric stabilized metallized vinyl film coated with a low tack micro-structured acrylic adhesive.

### CONSTRUCTION

#### **Face material :**

130 µm matt bi-layer polymeric stabilized calendered vinyl, cadmium-free and lead free composed of a coloured film overlaid on a metallized PVC film.

#### **Adhesive :**

Repositionable clear solvent based acrylic adhesive.

#### **Liner :**

Highly stable 145 gsm white micro-embossed PE coated paper.

### TYPICAL USES

TF 900 FlexChrome BF is designed for Vehicle & Boat Hulls Wrapping (above water line).

The main characteristic of this series is the unique matt chrome effect and its ability to conform on non-flat surfaces. The excellent repositionability and the micro-structured adhesive used further help out for the application.

### EXPECTED DURABILITY

Expected durability of the unprocessed product is up to:

<b>Vertical exposure</b>	Zone 1	Zone 2	Zone 3
colours	5 years	4 years	2.5 years

<b>Horizontal exposure</b>	Zone 1	Zone 2	Zone 3
Colours	3 years	2 years	6 months

This information is based on successful real life experience and artificial aging according to ISO 4892-2.

Boat application : above data reduced by 30%

**Zone 1:** North, West, Central & Eastern Europe, North America (excl. : USA desert's - zone 3)

**Zone 2:** South Europe, Central & South America, Asia Pacific, Australian South coastal area (from Perth to Brisbane), New Zealand

**Zone 3:** Greater Middle East, Africa, Australian Desert areas & North of Perth-Brisbane coastal area, USA (Arizona, California, Florida, Nevada, New Mexico, Texas, Utah), Mexico

### SHELF LIFE

2 years stored at 15-25°C and ± 50 % relative humidity.

### PHYSICAL PROPERTIES (Typical values)

**Thickness** (mm) (Film + adhesive) ISO 543  
0.160

**Face Material Data, 23°C** DIN ISO 527-3

Tensile strength : > 45 N/15mm

Elongation at break : > 150 %

NB : elongation above 30% could modify original metallization appearance

#### **Adhesive Data, 23°C**

FTM 1

Peel adhesion 180° on stainless steel (N/25mm)

- 20 min. residence: 18

- 24 hour residence: 20

- 1 week residence: 22

#### **Dimensional stability**

FTM 14

Shrinkage (48 hours at 70°C) : < 0.6mm

#### **Temperature ranges :**

Application : +15°C to + 40°C

End-use : - 40°C to + 90°C

#### **Flammability**

ISO 3795

Sample mounted on aluminium : self-extinguishing.

#### **Solvent and chemical resistance**

Resistant to most oils and grease, fuel, aliphatic solvents, weak acids, salts and alkalis.

### PROCESSING

#### **Clean and degrease the substrate**

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. Use soapy water to remove the dust and degrease with isopropyl alcohol.

#### **Application**

##### **on flat or slightly curved surfaces**

Apply TF 900 FlexChrome BF with the dry application method.

##### **on convex areas**

Slightly heat the film before conforming it over the convex area, using a maximum film temperature of 50-55°C to avoid changes in the metallization aspect and change in the gloss level. We recommend to use an IR lamp as it will give a more homogeneous heating of the film surface than a heat gun (which focuses on a small surface). If possible, heat from the back of the product. Once applied, stabilize the film for a few seconds at a temperature of 70°C.

##### **on corrugated or concave areas**

Heat the film at a max. of 50-55°C before application. If the film is stretched into a corrugation it may pop-out after a few weeks : we therefore recommend to stabilize the film for a min. of a few seconds at 70°C (film temperature) after application and to cut the film in the areas of most deformation. This way the film will be applied in the corrugation without tension. Do not overstretch the film.

##### **on rivets**

Apply the film over the rivet with high pressure and heat it with a heat gun respecting the temperatures

indicated here above. The film may lift slightly after few weeks.

#### **Application on boat**

We recommend edge sealing.

#### **Removability**

Once heated, TF 900 FlexChrome BF is very easy to remove, leaving almost no adhesive residue on car/boat body. Some adhesive residue may be expected on gel coat boat hulls after film removal. Eventual adhesive residues can be removed with isopropyl alcohol.

Removability is warranted on original manufacturer coatings only.

**Printing** : TF 900 FlexChrome is printable with several types of digital printing inks (SB, ecoSB, latex..). Prints should be laminated with CastLam Gloss/Matt to ensure a long lasting result.

#### **Important remarks**

- Some metallization imperfections (small dark spots, lines) can be present in the product & slight colour variation (waves) in TF 908-57 BF could occur but both are not to be considered as a defect. As a consequence, they will not be subjected to claims.
- Compatibility with paints and lacquers should be tested by the end-user, prior to use.
- Rolls from the same production lot number should be used for completing a job as a slight batch to batch variation of colour may occur.
- Handle the TF 900 FlexChrome BF with care as the appearance of the metallized layer could change upon crumpling, overstretching, too strong heating etc.
- Before application, user shall determine the suitability of the product for its intended use and shall accept responsibility to ensure compliance with all laws and regulations concerning the use of TF 900 FlexChrome BF on vehicles, trucks, boats....  
The user assumes all risks and liability in connection therewith.



**IMPORTANT NOTICE**

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