



# TuningFilm Velvet

## Technical Data Sheet

### PRODUCT DESCRIPTION

TuningFilm Velvet is a repositionable self-adhesive flocked cast vinyl.

### CONSTRUCTION

#### Face material :

170 µm cast vinyl, cadmium-free, coated with ±725 µm textile fibres

#### Adhesive :

Repositionable clear solvent based acrylic adhesive.

#### Liner :

Highly stable 135 gsm white kraft paper.

### TYPICAL USES

TuningFilm Velvet is designed for Vehicle Wrapping and interior decoration on smooth surfaces.

On top of its esthetical features, TuningFilm Velvet has also other interesting properties:

- reduce sound reverberation (improves acoustics)
- thermal insulation
- anti-slip properties (could be used as a carpet)

### EXPECTED DURABILITY

Expected durability of the unprocessed product is up to:

Interior decoration: 5 years

Exterior application:

Vertical exposure	Zone 1	Zone 2	Zone 3
black	4 years	3 years	2 years
colours	2.5 years	1.5 years	1 years

Horizontal exposure	Zone 1	Zone 2	Zone 3
black	2.5 years	2 years	Not Recom
colours	1.5 years	1 year	Not Recom

This information is based on successful real life experience and artificial aging according to ISO4892-3.

**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

1 year stored at 15-25°C and ± 50 % relative humidity.

### PHYSICAL PROPERTIES (Typical values)

**Thickness** (Film + adhesive) ISO 543  
± 925µm

**Face Material Data, 23°C** DIN 53455-5

Tensile strength : > 35 N/15mm

Elongation at break : > 100 %

### Adhesive Data, 23°C

FTM 1

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

- 20 min. residence: 11

- 24 hour residence: 15

- 1 week residence: 17

### Dimensional stability

FTM 14

Shrinkage (48 hours at 70°C) : < 0.05 %

(25 cm x 25 cm, sample mounted on aluminium).

### 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 TuningFilm Velvet with dry application method.

##### on convex or concave areas

Heat the film with a heat gun before conforming it over the convex area.

Air temperature must be under 350°C, otherwise textile fibres could be damaged.

##### on corrugated areas or rivets

If the film is stretched into a deep corrugation or applied on a rivet, it may pop-out after a few weeks.

We therefore not recommend to cover these areas.

#### Car maintenance

Car covered with TuningFilm velvet can be cleaned by going through a car wash or by using high pressure water jet.

#### Removability

Once heated, TuningFilm Velvet is very easy to remove, leaving almost no adhesive residue on car body.

Eventual adhesive residues can be removed with isopropyl alcohol.

Removability is warranted only on original manufacturer paint.

#### Important remark

Textile fibre colour may slightly vary from batch to batch. We therefore not recommend mixing lot numbers on the same job.

Compatibility with paints and lacquers should be tested by the end-user, prior to use.



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