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Version #1 (0912)
Approved by J. S.

Product

Tuning Film 700 BF – Sublime Vehicle Wrapping Film

Product Description

This is a Mactac family of pigmented 3.4 mil polymeric stabilized, cadmium-free, vinyl films designed for vehicle wrapping which are available in fifteen gloss and fifteen matte colors. These films are coated with a high performance, low tack, micro-structured (bubble-free) permanent, acrylic adhesive for easy application. The adhesive is protected by a 90# polycoated release liner for added stability and layflat with a light grey ‘Mactac’ back printing,

These films are outstanding choices for adding unique looks to a number of different vehicles and surfaces such as internal or external vehicle parts and electronic equipment like cell phones, computer covers, etc.

Physical Properties

Property	Typical Values	Test Method
Thickness, inches (mm) Face plus adhesive	0.0045 (0.115)	ASTM D-645 (ISO 543)
Face Material Data, 68°F (20°C) Tensile strength lb./in. (N/15mm) Elongation % at break	> 9 (29) > 150%	DIN 53455-5
Peel Adhesion lb./in. (N/25 mm) 180° on Stainless Steel -20 min. - 24 hr. - 1 week	3.7 (16) 4.1 (18) 4.6 (20)	ASTM D-903 (FTM-1)
Dimensional Stability, % 48 hours @ 158°F	< 0.2	FTM- 14 10” x10” Sample Bonded to aluminum
Temperature Range Application: End Use:	60° to 104°F (15° to 40°C) -40° to 194°F (-40° to 90°C)	
Flammability	Self-extinguishing	ISO 3795

- Values given are typical for unprocessed product and are not for use as specifications. Processing may change the values.

Durability

Vertical exposure (Horizontal exposure: reduced by 40%):

	Vertical application (years)			Horizontal application (years)		
	Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3
White and Black	8	6	Not Recommended	4.8	3.6	Not Recommended
Clear and Colors	7	5	Not Recommended	4.2	3	Not Recommended
Metallic's	6	4	Not Recommended	3.6	2.4	Not Recommended

Zone 1: North America, North, West, Central & Eastern Europe

(excluding desert areas of the USA which are in zone 3)

Zone 2: Central & South America, South Europe, Asia Pacific

(excl Australia & New Zealand)

Zone 3: Greater Middle East (e.g. Egypt, Israel, Iran, [Morocco](#), [Western Sahara](#), [Algeria](#), [Tunisia](#), [Libya](#), and [Mauritania](#)), **Africa, Australia, New Zealand, USA** (Arizona, California, Florida, Nevada, New Mexico, Texas, Utah), and **Mexico**.

Shelf Life

Tuning Films have a two year shelf life when stored between at 60- 80°F (15 - 25°C) and 50% relative humidity or less.

Removability

Tuning Films remove cleanly *with heat*.

Chemical Resistance

This product is resistant to most oils and grease, fuels, aliphatic solvents, weak acids, salts and Alkalis.

Limitations

- 1) The user is responsible for determining the product's suitability, including adhesion and if needed, removal characteristics when used in applications other than listed specifically in this Performance Guide.
- 2) If there are any questions about applications, please contact your Mactac sales representative to discuss your requirements for recommendations.
- 3) If this is a printed Performance Guide it is an uncontrolled document. Please check the Mactac website for the latest, most up-to-date version

Recommendations

Always test your combination of REBEL products, inks and laminating films prior to commercial use. All surfaces must be thoroughly cleaned from dust, dirt, grease and any other contaminate. Clean with soapy water first followed by a good cleaning with Isopropyl alcohol to remove any greasy or soap residue.

- 1) On flat or slightly curved surfaces:**
Apply directly on the substrate by the dry application method.
- 2) On convex areas:**
Heat the film with a heat gun before stretching it over the convex area.
- 3) On corrugated or concave areas:**
If the film is stretched into a corrugation it may pop-out after a few weeks. It is, therefore, recommended to cut the film and to apply it in the corrugation without tension.
- 4) On rivets:**
Apply the film over the rivet with high pressure and heat it with a heat gun (temperature over 500°C). The film may lift slightly after few weeks.
- 5) Compatibility of Paints and Lacquers:**
This should always be tested first by the end-user, prior to use.

CALL 1-800-321-8834 for additional product information

IMPORTANT NOTICE: The information given and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

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