

Version #6 (0217)  
Approved by J. S.

## Product

6300 Metallic Enhancers  
High Performance Cast Vinyl Series

## Product Description

Metallic Enhancer film 6300 is a premium 2.5-mil (**Crystal**) and 3.0-mil (**Silver** metallic flake) cadmium-free clear cast vinyl with high gloss and a high concentration of light refracting additives for a glistening appearance on the surface of your substrate or to use as an overlaminating film to greatly enhance your high quality graphics. These Mactac films are designed for high profile applications over **flat to slightly curved surfaces**. The products are coated with a high-performance permanent, clear solvent acrylic adhesive protected with 78# bleached white kraft liner for good stability and layflat.

## Typical Applications

- Logos
- Automotive applications
- Fleet marking
- Equipment identification
- Container decals
- General signage

## Physical Properties

Property	Typical Values	Test Method
<b>Thickness in inches</b> Film plus adhesive Crystal Silver	 0.0037 (94) 0.0042 (107)	ASTM D-645
<b>Peel Adhesion</b> 180° on Stainless Steel - 20 min. - 24 hr.	 2.8 (12.7) 4.0 (17.8)	ASTM D-903
<b>Face Material Data, 68°F (20°C)</b> Tensile strength lb. /in. (N/m) Elongation %	 >7.5 (1300) >120%	DIN 53455
<b>Dimensional Stability (shrinkage) in Percent</b>	< 0.10	10" x10" Sample Bonded on aluminum
<b>Temperature Ranges</b> Application: End Use:	 40° to 104°F (5° to 40°C) -50° to 225°F (-45° to 107°C)	

## Shelf Life

Two years when stored between at 60- 80°F (15 - 25°C) and 50% relative humidity or less.

## Durability

This product is good for 5-year in outdoor durability. This use-life estimate is based upon accelerated age studies based on vertical applications under “normal” temperate climates. Please note that exposure to severe temperatures, ultra-violet light and also tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure.

## Chemical Resistance

A sample is prepared in the same manner as for the Chemical Resistance Test and is immersed in the test fluid followed by drying at each stage.

Test Fluid	Observation
Gasoline (30min)	No Effect
Distilled Water (24 hrs.)	No Effect
SAE 20 Motor Oil (1 hr.)	No Effect
10% HCL (10min)	No Effect
10% NH <sub>4</sub> OH (10 min)	No Effect

## 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.

## Application Tips

**Used as cut vinyl** - Application of 6300 when used as cut-vinyl is made easier if **Mactac** pre-spacing tape is used, or can be applied as an overlaminating film with a standard laminator. Where exposures to chemical and solvent spills are likely to occur, edge sealing of decals with a varnish or clear coat will prevent edge lift. Correct varnishing of decals gives greater protection and longer end-use life against any prolonged effect of weathering, abrasion and other erosive effects such as frequent cleaning.

**Used as an Overlamine for Vehicle Wraps** - Because this is a much thicker overlamine Mactac offers a limited warranty on flat to slightly curved surfaces. There is no warranty for Enhancers on motor vehicle wraps, over rivets and corrugations, through complex surfaces or for marine graphics.

- *Values given are typical and are not necessarily for use in specification.*

**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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