

Commercial Solutions Division

# ProTemp™ Automotive Window Film

## Metallic Shade Series

### Product Bulletin

## 1. Product Description

ProTemp™ Metallic Shade automotive window films are metallized, dyed polyester films with an acrylic pressure sensitive adhesive and an abrasion resistant coating.

## 2. Applications

ProTemp™ Metallic Shade automotive window films are intended for interior application on flat to complex curved automotive glazing.

## 3. Typical Properties

Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

These are indicative values for 3M™ Window Film products.

| Product construction |                                  |
|----------------------|----------------------------------|
| Material base        | Metallized, dyed polyester       |
| Adhesive             | Pressure sensitive acrylic       |
| Protective liner     | Heat shrinkable, siliconized PET |

| Typical Performance Properties according to EN 410 |                      |                      |              |                             |                |          |                     |                 |
|--|----------------------|----------------------|--------------|-----------------------------|----------------|----------|---------------------|-----------------|
| Film Type  | Visible Light        |                      |              | Total Solar Energy Rejected | G Value (SHGC) | UV Block | Heat Gain Reduction | Glare Reduction |
|  | Reflected (interior) | Reflected (exterior) | Transmission |                             |                |          |                     |                 |
|  | %                    | %                    | %            | %                           |                | %        | %                   | %               |
| Clear glass (6 mm)                                 | 9                    | 8                    | 89           | 19                          | 0.82           | 38       | NA                  | NA              |
| Metallic Shade 5                                   | 5                    | 5                    | 5            | 49                          | 0.51           | 99       | 37                  | 94              |
| Metallic Shade 10                                  | 6                    | 5                    | 11           | 48                          | 0.52           | 99       | 35                  | 88              |
| Metallic Shade 25                                  | 6                    | 6                    | 25           | 44                          | 0.56           | 99       | 31                  | 72              |
| Metallic Shade 35                                  | 6                    | 6                    | 36           | 40                          | 0.60           | 99       | 26                  | 59              |
| Metallic Shade 55                                  | 8                    | 7                    | 58           | 34                          | 0.66           | 99       | 19                  | 35              |

The values above are the results of illustrative lab test measurements and shall not be considered as a commitment from 3M.

## 4. User Information

### 4.1 Shelf Life & Storage (prior to application)

Shelf life is 2 years from the manufacturing date. Material should be stored in its original packaging, laying in a horizontal orientation, away from direct sunlight. Heavy objects should not be placed on top of it to avoid damaging the product. Recommended storage conditions are +21°C and 40 – 50% relative humidity. Avoid extreme temperature ranges in storage.

The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as warranty.

### 4.2 Application

These are indicative values for 3M™ Window Film products.

|                         |   |
|-------------------------|---|
| Recommended substrate   | Automotive glazing  |
| Recommended surface     | Flat to complex curved glazing  |
| Application method      | Wet application. Use a heat gun to shrink and fit the film to simple and complex curves when necessary.                                 |
| Application temperature | From +4°C to +45°C  |
| Service temperature     | From -40°C to +70°C   |
| Edge sealing            | Not necessary   |
| Drying Time             | Final adhesion is reached after approximately 15 – 20 days at +18°C and dry conditions. Please refer to local instructions for details. |

3M Automotive Window Film is to be professionally applied by skilled, well-trained and 3M authorized installers. Windows can be considered operational after 24 hours.

### 4.3 Maintenance and Cleaning

Use a cleaning agent designed for high quality glass surfaces. The cleaning agent must be wet and non-abrasive with a pH value between 6 and 8 (neither strongly acidic nor strongly alkaline).

## 5. Remarks

This bulletin provides technical information only.

To request additional product information see address below.

### Important Notice

All questions of warranty and liability relating to this product are governed by the terms and conditions of the sale, subject, where applicable, to the prevailing law.

Before using, the user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection therewith.



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