

## CTW836D - 3D Glossy Carbon

### Description

3D Glossy Carbon Film is a calendered high durable PVC film with LG Hausys's AiRFREE™ technology. It has high glossy effect and also has carbon fiber emboss. It's designed for automotive exterior and interior application. AiRFREE™ technology allows trapped air to be released during application.

### Features

- 5 years durable calendered film (Vertical Exposure)
- Dimensional stability and performance under a wide range of physical and climatic conditions
- Excellent weather resistance: Solvent based acrylic adhesive (Repositionable Type)
- Liner: Super flat, double side PE coated PET with air free

### Application

- Automotive exterior and interior application

The films conform well to flat and seamed surfaces, when processed and applied according to LG recommendations. The film can lose its gloss effect when heated up to 60~70°C and stretched.

### Characteristics

Item	Description
Film	220 microns opaque film with 3D Glossy Carbon Effect
Thickness	260 microns with adhesive ( $\pm 10\%$ )
Adhesive	Acrylic based pressure sensitive (Solvent based)
Adhesive color	Clear
Liner	Double side PE coated PET with Air Free
Application surfaces	Flat, slightly curved surfaces
Application temp.	$\geq 10^{\circ}\text{C}$ (18 to 25°C optimum)

### Durability

Durability is based on field experience and exposure tests in South Korea. Outdoor durability is 5 years when properly processed and applied (vertical exposure)

### Shelf Life

Shelf life is 1 year from factory shipment.

Storage condition: Free from excessive moisture, temperature, direct sunlight (20°C x 50% R.H)

### Physical Properties

Property	Result	Test Method
<b>Thickness (Including adhesive)</b>	260 $\mu$ m $\pm$ 10	Micrometer
<b>Tensile strength</b>	$\geq$ 1.8kg/cm <sup>2</sup>	ASTM 882
<b>Elongation</b>	$\leq$ 30%	ASTM 882
<b>Peel Adhesion (24 hours)</b>	$\geq$ 1,400g/in	180 peeling PSTC-1
<b>Service temp. range</b>	-25°C~82°C	Film applied Al panels 24hrs prior test
<b>Application temp</b>	$\geq$ 10°C	18 to 25°C optimum, on clean substrate
<b>Opacity</b>	Tt $\leq$ 10	Haze Meter (Tt: Transmission)
<b>Gloss</b>	85 $\uparrow$	@60, in Machine Direction
<b>Dimensional Stability</b>	Max 0.5mm	Adhered to Aluminum Plate, Length Direction (80°C Oven, 24hr , Average)
<b>Release liner thickness</b>	0.16mm $\pm$ 10%	Micrometer