



AUTOMOTIVE SOLUTIONS

LD821TG



Sign & Graphic Materials



CAST LD821TG is an opaque cast vinyl with LG Hausys's AiRFREE™ technology. It also features a long-term durability for up to 7 years and a highly cohesive acrylic pressure-sensitive adhesive that is protected with a high quality siliconized liner. AiRFREE™ technology allows trapped air to be released during application. AiRFREE™ is LG Hausys's proprietary technology that utilizes embossing patterns on the release liner, making it easier to remove trapped bubbles and increasing overall efficiency and productivity.

Areas of use

Solvent inkjet printing: Vutek, Arizona, Mimaki, Mutoh, Roland, Seiko, HP, etc.

Outdoor displays, signs, exhibition stands, and vehicle wrap

⇒ The film conforms well to flat and seamed surfaces when processed and applied according to LG Hausys's recommendations.

Advantage

Outstanding dimensional stability (Shrinkage rate less than 5%)

Excellent printing performance

Excellent lay flatness even in humid conditions

Excellent weather resistance: Solvent-based acrylic adhesive

Release liner : 98#(120g) Super flat, Double-side, olefin-coated Paper

Available Width : 54", 60"(152cm)

Characteristic

Item	Description
Film	2.3 mil(58μm) opaque film with glossy finish
Thickness	3.5 mils(90μm) with adhesive (± 10 %)
Adhesive	Acrylic, pressure-sensitive (Solvent-based)
Adhesive color	Grey
Liner	Double-side, olefin-coated paper / Kraft Paper
Application surfaces	Flat or compound/curved surfaces, rivets
Application temp.	≥ 50°F (65°F to 77°F optimum)

Durability

Long-term outdoor durability for up to 7 years when properly processed and applied (unprinted film, vertical exposure). Durability is based upon field experience and exposure tests believed to be accurate.

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	Metric Units	Test Method
Thickness (Including adhesive)	3.5mils(90 μ m) \pm 10%	Micrometer
Tensile strength	\geq 8 lbs/in	ASTM D882
Elongation	\geq 100%	ASTM D882
Peel adhesion(24hrs)	2.6 lbs/in	180 peeling PSTC-1
Service temp. range-	13°F ~ 179°F	Film applied Al panels 24hrs prior test
Application temp.	\geq 50°F	65°F to 77°F optimum, on clean substrate



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