



Luxe LightWrap™ Product Data Sheet

Smoke Series

Product Description:

Luxe LightWrap™ Smoke Series are translucent premium cast PVC films that are designed to visually modify the appearance of clear plastic and chrome with ease. LightWrap's™ cast construction offers extraordinary dimensional stability and long-term durability on even very complex shapes with little to no shrink back when installed correctly. The clear semi-permanent adhesive features repositionability and air-egress allowing for faster, bubble free, and easier installation with long term removability. Typical applications include automotive lights, chrome, architectural lights, and other clear plastics applications which require exterior exposure of 5 to 7 years. LightWrap™ is designed to be removable using heat and/or chemicals for a period of up to 3 years. LightWrap™ films will accept most types of digital printing inks except water based ink-jet.

Physical Characteristics:

Characteristic	Measurement	Typical Value
Material		Vinyl, Cast
Colors		See chart on Page 1
Thickness	ISO 4591:1992	3.15mil or 80µm
Adhesive		Clear semi-permanent 25µm
Elongation	ISO 527:1996	>140%
Applied Shrinkage 48hr @ 158°F (70°C)	FTM 14 bonded to aluminum	<0.5mm
Gloss Level @ 60°		Gloss - >85 Stealth - 20-30
Release Liner		Polyethylene coated paper printed red Air-egress
Temperatures		Service: 68°F to 194°F (-20°C to 90°C) Application: Minimum of 65°F (149°C)
Chemical Resistance		Resistant to most mild acids, alkalis, and salt solutions. Tested with water, diesel fuel, antifreeze, hydraulic oil with no effect.
Flammability		Self-Extinguishing





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Storage and Shelf Life:

The shelf life is 3 years from the date of manufacture when stored between 59°F and 74°F (15°C to 23°C) and at 50±20% relative humidity. Films should be stored in the original container, out of sunlight, and in a clean, dry area. If the film is processed (laminated or printed on), then the shelf life is changed to 1 year from the processing date.

Product Usage Guide:

LightWrap™ is designed for application on solid surfaces such as vehicle lights and chrome. It is not advised to use a wet application method when installing these films. All substrates must be cleaned of all contaminants and/or sealants, and a final wipe of Isopropyl alcohol is recommended. LightWrap™ should not be applied to unsound surfaces or any surface which may crack, peel, or outgas. The actual performance of the film can be affected by the following factors: preparation of the substrate, surface texture, application method, angle and direction of sun exposure, environmental conditions, and cleaning methods. Special attention should be taken when applying LightWrap™ because of its translucency. It is crucial to evenly disperse tension and normalize stretching to reduce adhesive lines and shade variations. When using stealth finish films overstretching will cause a slight glossing of the finish. The film can be stretched up to 130%, and should be post heated to a temperature of 195°F to release the memory effect and ensure long term success. Use cleaning products designed for automotive vinyl that are free of abrasive compounds and ideally pH neutral, and avoid glossing agents when cleaning stealth finishes.

Warranty:

Luxe LightWrap™ films are produced in the USA under strict quality control and are warranted to be free of any defect in material from manufacturing. Film that is shown to be defective will be replaced free of charge by Luxe Auto Concepts, whose limited liability to the purchaser shall not exceed the cost of the amount of the defective film supplied. The product is warranted to provide clean removability, or <30% adhesive residue left, with proper heat and chemical removal methods. Due to the large variety of painted surfaces and UV coatings on lights it is advisable to fully evaluate the surface before completing a LightWrap™ installation. Luxe Auto Concepts does not accept any liability for paint or surface failures incurred during the application or removal of LightWrap™ films.

Luxe Auto Concepts makes no warranty for:

- Paint/Clear coat damage: Luxe does not warrant paint or coating that was not properly bonded to the substrate and custom paint applications.
- Removal from aged paint, oxidized surfaces or chalking, or failing UV coating; applicator must test, approve, and accept liability for such applications.
- Removal from pre existing graphics that must remain intact.
- Ease or speed of film removal

The data in this document shows typical properties and should not be taken as a guarantee for performance.

