

Breakthrough Lighting Featured on our Thermoplastic Lit Liftgate

Enhance your vehicle exterior experience with our breakthrough lighting effects to achieve a unique brand identity. Magna's Thermoplastic Lit Liftgate advances the communication between the user, the vehicle and its surroundings.



Competitive advantage/differentiators

- ADAS sensors, lighting, and trim can all be integrated seamlessly into A-surface
- Breakthrough hidden-until-lit light effects
- Communication and safety lighting
- In-surface interactive illuminated control
- Molded-in styling features and textured surfaces

Applications

- EVs
- ICEs
- Autonomous platforms

SOP

Ideation

Discovery

Concept

Development

Serial Preparation

in Production

Thermoplastic Roof Panels

Lightweight removable thermoplastic roof panels and modules utilizing Magna's proven liftgate technologies designed to provide a convenient open-air experience.



Lighter



First to Market
Opportunity



Co-Development
Opportunity



Magna Exclusive



Design

Competitive advantage/differentiators

- 20%-25% lighter than SMC structures
- Greater flexibility for integrating molded in features / complementary products
- Robust, tough material that is ideal for painting or molding in color
- Injection molded platform best suited for product quality and repeatability

Applications

- Sport Utility Vehicles (SUV)
- Crossover Utility Vehicles (CUV)
- Roll Structure Architectures
- Side Rail to Side Rail Architectures
- Multi-functional Roofs

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Technology Demonstrator

Magna Thermoplastic Roof Panels

Experience Magna's lightweight removable thermoplastic hardtop roof panels integrated with multi-functional features providing lighting, driving comfort and power for customer convenience.



List of current technology(s) on vehicle:

- Magna Lightweight Thermoplastic Panels
- Magna Utility Lighting
- Integrated Power Source
- Integrated Electronic Charge Port
- Magna Transparent Panel

Opportunities for additional technologies:

Smart Glass - Lightweight With Auto Shading
Sustainable Plastics - Post Consumer / Ocean Waste Components
Lighting – Utility, Communicative Internal and External
Electronics – Chargeable Power Source Mobile / Sustainable

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Magna Mezzo™ Panel

First-to-market, large-format decorated front panel using in-mold film. Integrating state-of-the-art sensors, cameras and light technologies to enable unique OEM brand distinction. Combining innovative materials and process technologies to achieve a high-quality lit surface and seamlessly integrate radar.



Competitive advantage/differentiators

- Lit surface decoration possibilities including Chrome, Paint and Film effects
- Thin molded panel with large-format in-mold film technology
- Hidden-until-lit lighting features
- Animated lighting capability
- State-of-art radar sensor functional integration

Applications

- Electric vehicles
- Internal combustion vehicles
- ADAS integrated panel modules

LumiGrille

Reimagined grille with innovative FLECSFORM™ lighting technology enabling a thin, hidden-until-lit panel. Combining innovative materials and process technologies to achieve a seamless homogenous lit surface.



Smarter



Lighter



New Mobile



Design



First to Market
Opportunity



Magna Exclusive

Competitive advantage/differentiators

- Thin panel and assembly
- Hidden-until-lit front lighting effect
- Even illumination over full surface
- Lighter weight versus traditional lighting panel

Applications

- Front grille with “welcome” lighting effect
- Vehicle trim with “accent lighting” with or without hidden-until-lit feature
- Animated lighting sequence through addressable led arrays

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