



KEY FEATURES AND BENEFITS

- Enhanced signal transmission
- Excellent gloss protection
- Easier to clean
- Long-term weatherability
- High scratch and abrasion resistance
- Superior chemical and solvent resistance

SilFORT* Hardcoats for Autonomous and Electric Vehicles

Enabling Plastics, Enabling Future Mobility

SilFORT* hardcoats offer automotive manufacturers the ability to replace glass and metal with lightweight plastics in a number of demanding applications, including lighting, glazing, exterior trim, sensor covers, interior parts and new front module applications.

Applying SilFORT hardcoats extends the long-term durability and performance of plastics, such as polycarbonate and PMMA. SilFORT hardcoats increase weatherability, cleanability and resistance to abrasion, chemicals and solvents to help plastics maintain color, gloss, light transmission and other physical properties.

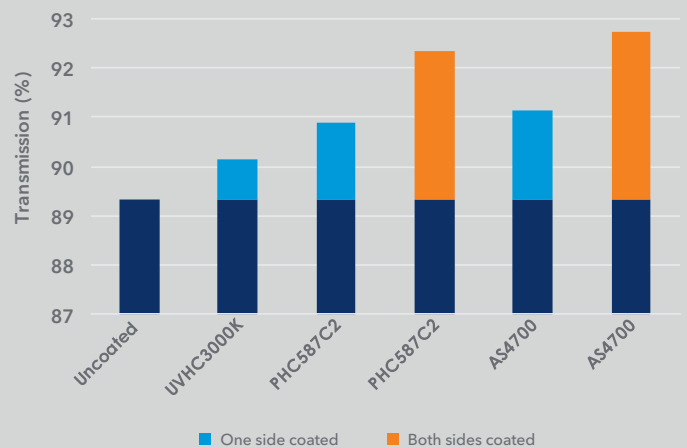
Hardcoats for Vehicles with ADAS Functionality

Vehicles with Advanced Driver Assistance Systems (ADAS) must be able to 'see' their environment to function properly. The accuracy of the ADAS sensor is paramount to enable autonomous driving. SilFORT hardcoats provide polycarbonate protective covers with a glass-like surface, enabling a higher transmission rate of the LIDAR signal through the cover and improving sensor accuracy.

Hardcoats for Electric Vehicles

SilFORT hardcoats enable the replacement of glass and metal parts in electric vehicles with lightweight plastics, resulting in an increase in the operating range of the vehicle before charge. SilFORT hardcoats can help enable new design concepts. Since air flow to an engine is no longer required, polycarbonate front modules, protected by SilFORT hardcoats can replace traditional front grills, which provides the option of ADAS sensor functionality, headlamp integration and colorful LED lighting effects.

SilFORT Hardcoats: Transmission Rates of Coated Polycarbonate at 905 nm

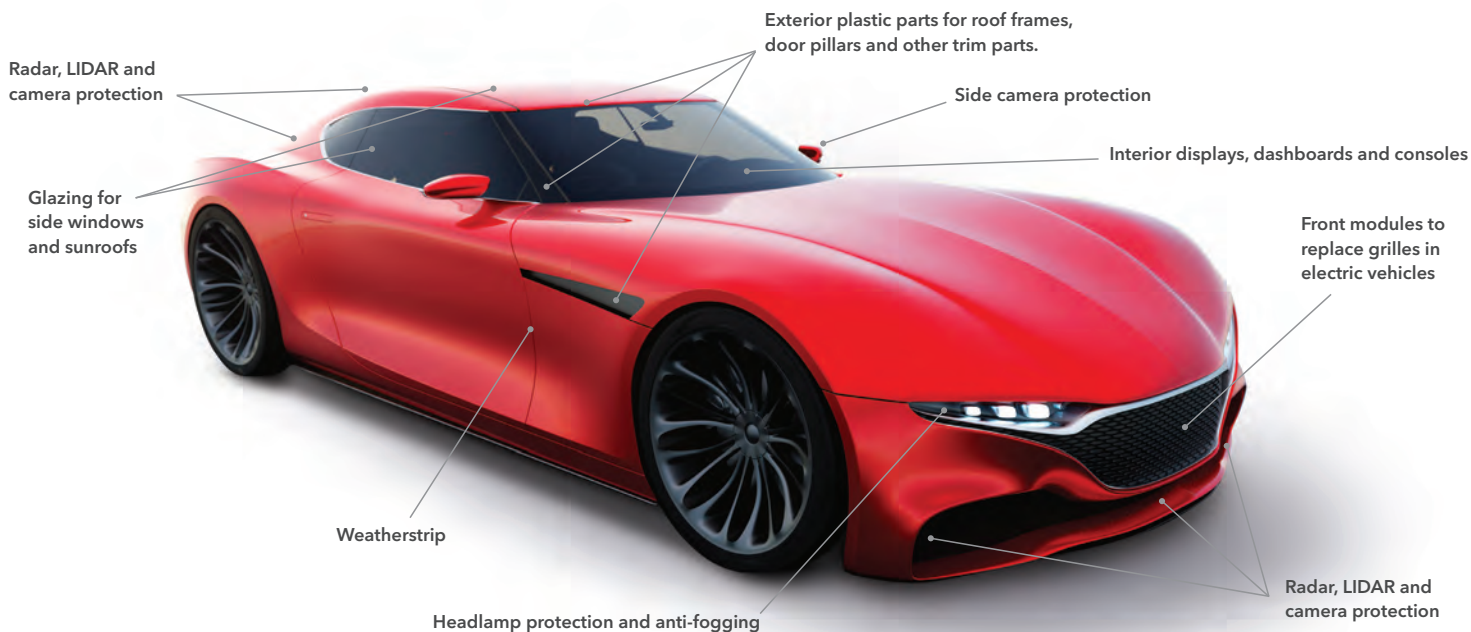


Test data only, not to be used for specifications.

Measurements made on 3 mm thick Makrolon AX2675 ST provided by Covestro

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SilFORT* Performance and Protection...Inside and Out



Worldwide Support for Our Partners

Momentive has been developing innovative silicone solutions for the automotive industry for decades. As a global leader in silicones, our products are designed with performance and high-reliability in mind. Momentive has production facilities around the globe, controlling our manufacturing process from the base silicone to the finished product. This ensures you get the performance you need with full quality control over all inputs and a product you expect. We support our customers with state-of-the-art research, application development labs and dedicated industry experts located around the world.

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