



Enabling functional integration in mobility and beyond.

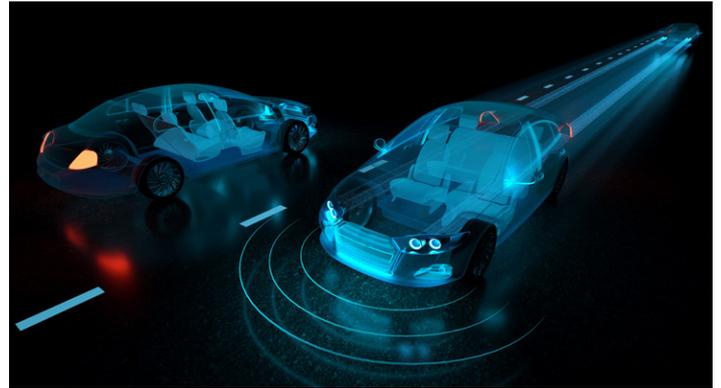
Black, near infrared transparent polycarbonate film for sensor applications.

Makrofol® ST



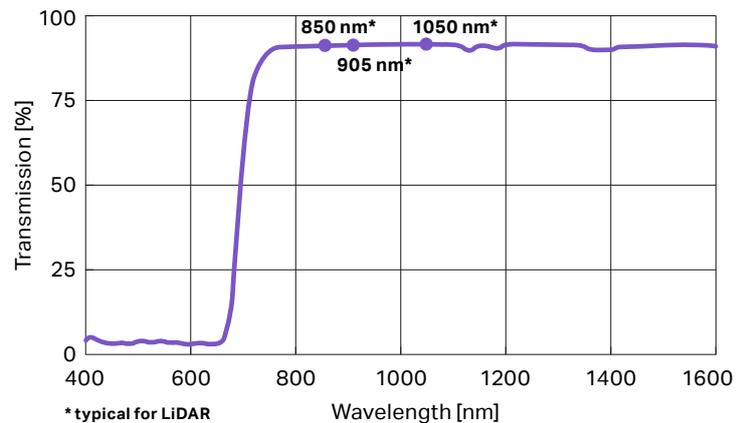
Functional integration with Makrofol® ST

Mobility is changing very rapidly, and tomorrow's driving experience will be different from what it is today. With our **Makrofol® ST352** near infrared (NIR) transparent film, we support the development of embedded sensors, which are essential for autonomous and assisted driving technologies. In particular, with **Makrofol® ST352**, we address the need for a tinted film in LiDAR (Light detection and ranging) applications, such as front modules for electric vehicles.



Components and benefits of Makrofol® ST352 1-1:

- High optical quality film based on polycarbonate with a deep black visual appearance
- High light transmission in the NIR range
- Well-defined low-light transmission in visible range (VIS)
- A co-extruded film with an additional one-side cap layer for UV protection
- Smooth and glossy surface (1-1) on both sides, lined with protective masking
- Further processes in cutting, high pressure or thermoforming, film insert molding (FIM), printing and coating steps are possible



Makrofol® ST352 can also be applied beyond mobility applications, including consumer electronics and appliances, embedded sensors, as well as smart home devices.

Typical parameters

Film thickness	Transmission (VIS)	Transmission (NIR)	Gloss	Masking
375 / 500 µm (details upon request)	≤ 5%	≥ 89% at 905 nm	Top / reverse side: ≥ 99	Polyolefin both sides

Key Features

Transmissive in near-infrared	Black film	UV protected	High formability
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1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.
 Edition: 2021 · Printed in Germany