

# SABIC SOLUTIONS FOR RADAR SENSORS

Radar systems are an integral part of the ADAS system supporting features such as Adaptive Cruise Control (ACC), Autonomous Emergency Braking (AEB) and Forward Collision Warning (FCW). Radar sensors constantly sense the distance between vehicles in real-time to improve driving efficiency and safety. SABIC's highly specialized thermoplastics can help engineers improve radar sensor technologies using materials that aid in light weighting and metal replacement, overall system costs and improved design flexibility. Providing automakers and their suppliers with high performance solutions to help them address the ever-changing ADAS landscape, our expansive portfolio offers the following value propositions.

## SABIC VALUE PROPOSITION



EMI SHIELDING



THERMALLY CONDUCTIVE



HIGH STRENGTH



CHEMICAL RESISTANCE



LOW WARPAGE

### RADOME

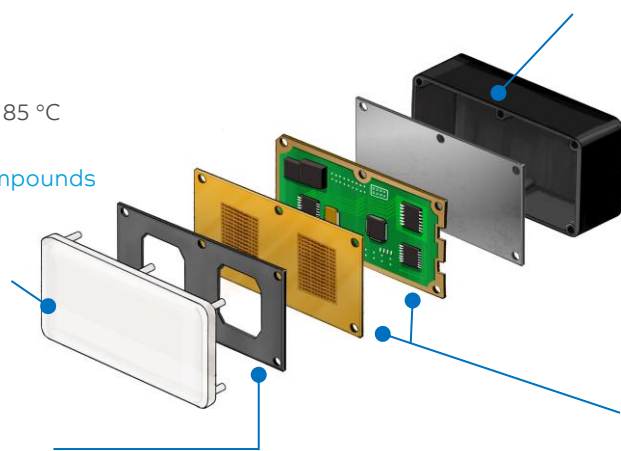
Requirements:

- Low Dk / Df
- Laser weldable
- Chemical resistance
- Working temp. -40 °C to 85 °C
- De-icing (optional)
- LNP™ THERMOCOMP™ compounds (PBT and PPE based)
- LEXAN™ SLX2271T resin
- ULTEM™ resin

### BACK COVER

Requirements:

- EMI shielding & thermal conductive
- Laser weldable & markable
- Low warpage
- Chemical resistance
- Working temp. -40°C to 85°C
- Grounding
- LNP KONDUIT™ compound
- LNP FARADEx™ compound



### ABSORBER

Requirements:

- RF absorber
- LNP STAT-KON™ compounds

### WAVEGUIDE ANTENNA

Requirements:

- Dimensional stability close to metal
- Metallizability

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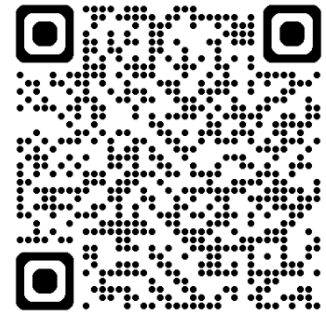
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