

# SABIC'S MATERIAL SOLUTIONS FOR LIDAR

With the trend to embed LiDAR systems within the front and rear fascia of automobiles or within the headlights, ensuring the durability and clarity of these units is paramount. Many MEMS (Micro-Electro-Mechanical Systems) and solid-state LiDAR systems are exposed to adverse weather conditions and road debris making them vulnerable to hot and cold temperatures and impact. SABIC's Specialties portfolio of highly engineered thermoplastics offers material solutions to support IR transparency, superior optical quality, high heat resistance and excellent weatherability.

## SABIC VALUE PROPOSITION



IR TRANSPARENCY



CHEMICAL RESISTANCE



COLD TEMPERATURE IMPACT RESISTANT



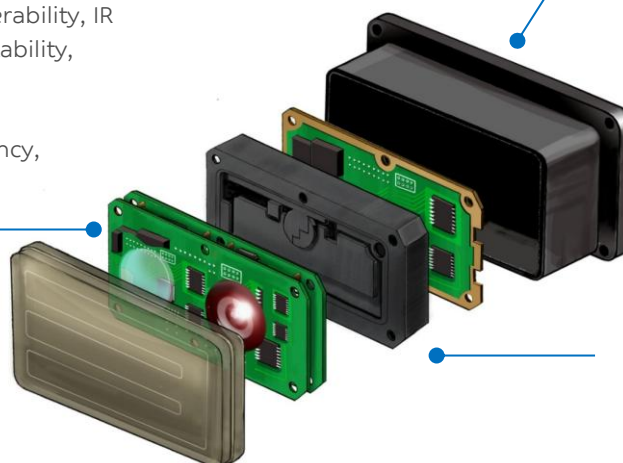
THERMALLY CONDUCTIVE

### LENS COVER & BARREL LENS

- **LNP™ CXT resin**  
(superior optics, IR transparency, cold temperature impact)
- **ULTEM™ resin**  
(high heat resistance, weatherability, IR transparency, dimensional stability, lead free solder capable)
- **LNP SLX resin**  
(weatherability, IR transparency, cold temperature impact)

### BACK COVER / SIDE HOUSING

- **LNP KONDUIT™ compound**  
(thermal management + optional EMI shielding)
- **LNP THERMOCOMP™ compound**  
(chemical resistance, rigidity, low warpage, UV stability)



### MIDDLE PLATE

- **LNP FARADEx™ compound**  
(EMI shielding)
- **LNP KONDUIT compound**  
(thermal management)

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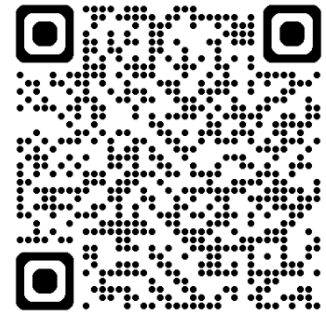
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## FOR INQUIRIES & QUESTIONS

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