

ULTEM™ RESINS FOR EV POWER ELECTRONICS SYSTEMS

In EV power electronics systems like DC-DC converters and power inverters, thermal management is critical for optimizing performance, reliability and durability. Heat dissipation methods include circulating liquid coolant, typically a corrosive mixture of water and ethylene glycol, through a heat exchanger. SABIC's ULTEM™ resins retain their mechanical performance, including tensile strength, and withstand heat and chemical degradation under exposure to liquid coolants. ULTEM™ resins can replace metal in these enclosures to cut weight, enable part integration, and simplify manufacturing by replacing die casting and machining with injection molding. These resins are compatible with liquid cooling chemicals and provide high heat resistance.

SABIC VALUE PROPOSITION



DIMENSIONAL STABILITY



EV COOLING FLUID/CHEMICAL COMPATIBILITY

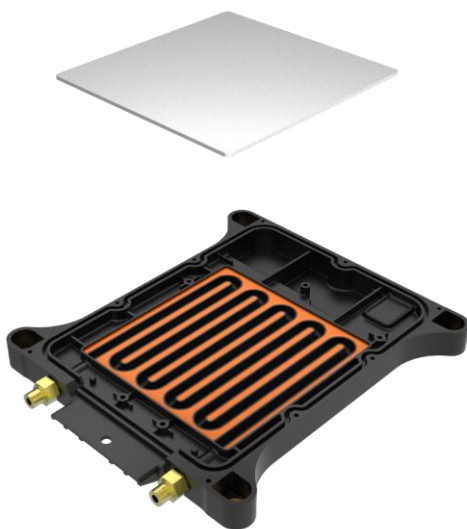


EMI SHIELDING



LIGHT WEIGHTING

ULTEM™ Resin	Melt Index (g/10 min)	Type	Application
2300	5	PEI	DC-DC converters ,Power inverters, Sensors, Connectors



DC-DC converters



Power inverters

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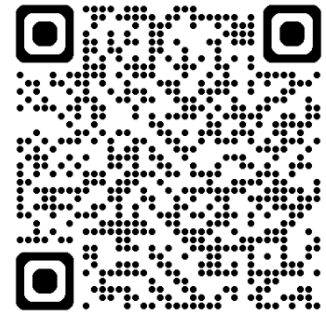
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