Proxxima™

Battery housing

Rethinking battery housing design

Make it safe. Make it light. Make it efficient.

As EV production ramps up, automakers are under intense pressure to boost range, safety, and affordability. That puts battery housings in the spotlight—they must be safe, lighter, and more efficient without driving up cost or complexity.

Traditional steel and aluminum are heavy, energy-intensive, and limit design freedom, while many composite options cut weight but fall short on toughness, cycle time, and true high-volume manufacturability.

What we want to achieve through collaboration

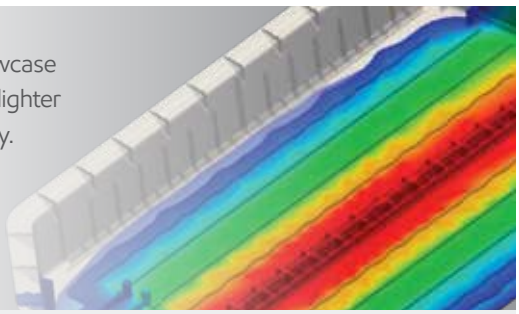
Safe
Meeting requirements leveraging system toughness

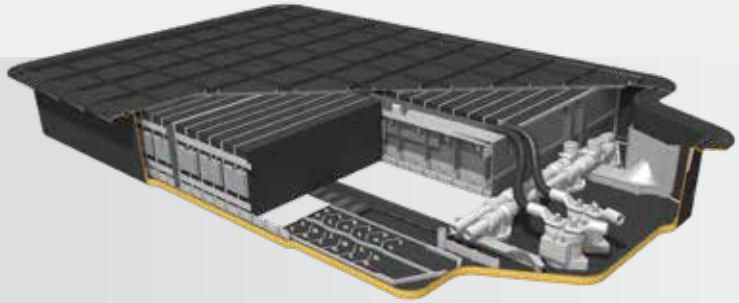
Light
Through design flexibility and part integration

Efficient manufacturing
Enables short cycle times at scale

Developed with key collaborators, the battery housing demonstrator aims to showcase Proxxima™ systems: integrates safety features leveraging impact resistance, makes lighter parts through consolidation, and improves efficiency by reducing process complexity.

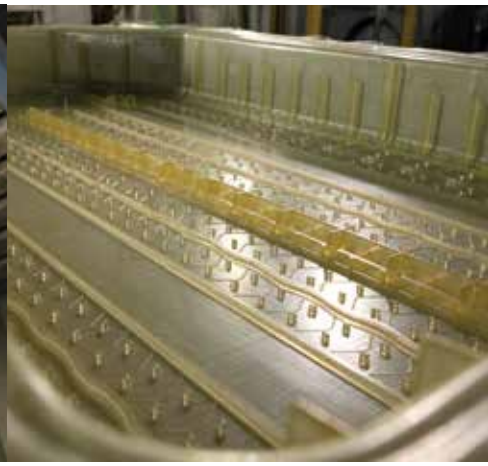
Integrated design and unique resin chemistry cut weight, boost functionality, and streamline manufacturing for high-volume automotive production.





Developed in collaboration with Fraunhofer ICT and Simutence.

Proxxima™

Mapping Proxxima resin systems' advantages to value

Toughness	Low viscosity	Snap cure
Part designed to meet safety requirements ▪ Resin exhibits higher toughness than conventional epoxy systems. ▪ Resin toughness drives bottom and side impact performance.		
Lighter through design flexibility and part integration ▪ Clean resin architectures enable features which challenge conventional epoxy systems. ▪ Integrated foam cores enable functional consolidation of underbody shield and housing assemblies.		
	Efficient manufacturing enables short cycle times at scale ▪ Low viscosity speeds mold filling while snap-cure chemistry accelerates production. ▪ Lower operating pressure reduces tooling capex while increased throughput supports high-volume manufacturing.	

Could Proxxima technology be a breakthrough solution for you?

2026_02_PRX_SS_MOB_BH_LETTER_EN_1