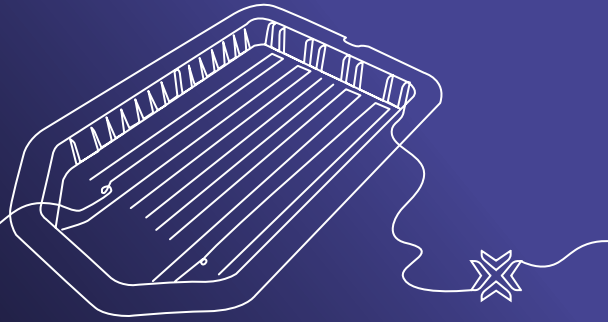


# Rethinking battery housing design

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

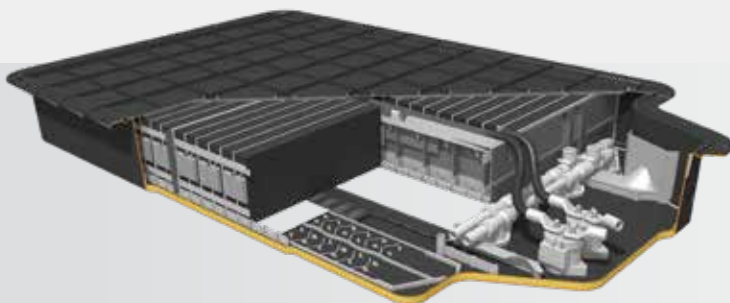
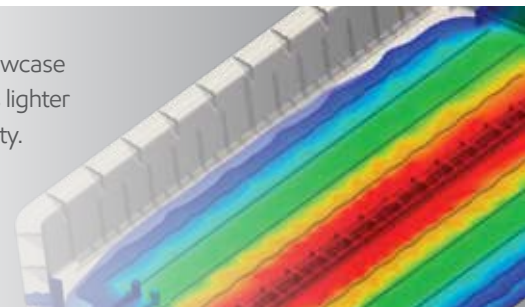


**Efficient manufacturing**

Enables short cycle times at scale

Developed with key collaborators, the battery housing demonstrator aims to showcase Proxima™ 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.



## Mapping Proxima resin systems' advantages to value

Toughness	Low viscosity	Snap cure
 <p><b>Part designed to meet safety requirements</b></p> <ul style="list-style-type: none"> <li>▪ Resin exhibits higher toughness than conventional epoxy systems.</li> <li>▪ Resin toughness drives bottom and side impact performance.</li> </ul>		
 <p><b>Lighter through design flexibility and part integration</b></p> <ul style="list-style-type: none"> <li>▪ Clean resin architectures enable features which challenge conventional epoxy systems.</li> <li>▪ Integrated foam cores enable functional consolidation of underbody shield and housing assemblies.</li> </ul>		
		 <p><b>Efficient manufacturing enables short cycle times at scale</b></p> <ul style="list-style-type: none"> <li>▪ Low viscosity speeds mold filling while snap-cure chemistry accelerates production.</li> <li>▪ Lower operating pressure reduces tooling capex while increased throughput supports high-volume manufacturing.</li> </ul>

## Could Proxima technology be a breakthrough solution for you?

©2026 ExxonMobil Product Solutions Company, a division of Exxon Mobil Corporation. PROXXIMA and the X Logo are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries. Other trademarks shown are property of their respective owners. It is solely the user's responsibility for all determinations regarding use of the information and product. To the extent permitted by applicable law, all warranties and/or representations, express or implied, as to the accuracy or reliability of the information or products are disclaimed, and no liability of any kind whatsoever directly or indirectly arising out of or in connection with the use of, or reliance on, this document or any product referred to herein is accepted.

The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate or subsidiary either directly or indirectly stewarded.

2026\_02\_PRX\_SS\_MOB\_BH\_LETTER\_EN\_1