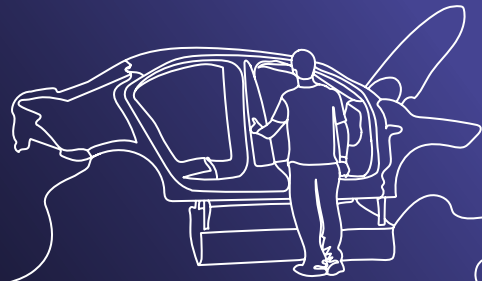


Proxima™ polyolefin thermoset resin systems



Empowering the next generation of mobility

Future vehicles demand advanced materials to meet emerging global needs. These materials must provide engineers with greater design freedom, unlock manufacturing efficiencies throughout the value-chain, and enhance long-term vehicle performance and energy efficiency for consumers.

Proxima thermoset polyolefin resin systems feature innovative chemistry that enables new part designs, drives manufacturing efficiency, and boosts part performance through a unique combination of liquid resin, tunable catalyst, and cured polymer properties.

- Effective for RTM, WCM, RIM, Filament Winding, and Pultrusion
- Compatible with glass, carbon fiber and natural fiber reinforcements

Innovative chemistry that enables new design freedoms, manufacturing efficiency, and part performance



Reimagine designs

- Produce large, thick, complex composite geometries
- Maximize functional integration, ability to add rib and boss features



Rethink manufacturing

- Ultra-low viscosity enables:
 - Fast infusion time <1 min
 - Lower pressures required
- Rapid, controllable cure: <2 min



Boost performance

- Tough: 5x versus epoxy
- Chemical resistant
- Hydrophobic
- Fatigue resistant



Reduce part and vehicle weight

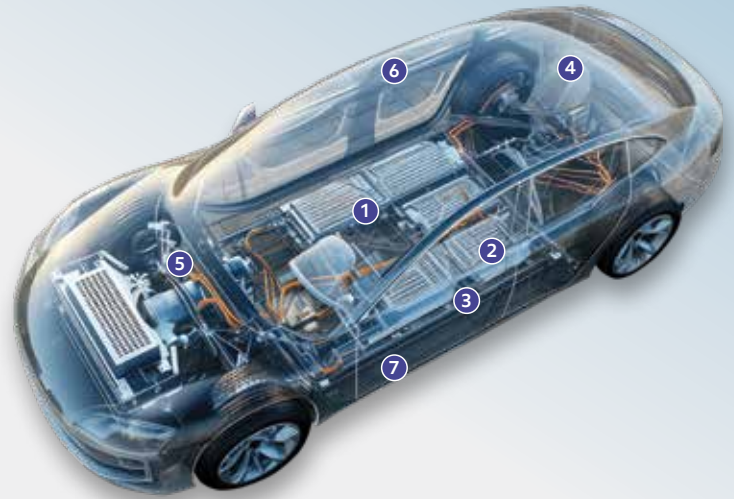
- 5-10% lower density versus traditional thermosets
- Potential to consolidate multiple components into a single part

Make it Proxima™

Making it possible in Mobility

Applications

- 1 Battery top cover**
Reduce overall weight while enhancing part durability and quality.
- 2 Battery housing**
Simplify assembly processes and improve overall vehicle safety and performance.
- 3 Battery underbody shield**
Increase impact resistance to enhance vehicle safety while also reducing weight.
- 4 H₂ & CNG Tanks**
Reduce material usage and improve production efficiency.
- 5 Springs**
Increase payload capacity while enhancing overall vehicle comfort.
- 6 Sunroof headliner support**
Improve vehicle safety and reduce overall component weight.
- 7 Body panels (RIM)**
Increase durability and improve manufacturing efficiency.



Accelerating mobility development through collaboration

To facilitate the testing of Proxima™ systems, ExxonMobil is partnering with leading research and innovation centers, including Fraunhofer ICT in Germany, and the IACMI Scale-Up Research Facility in Detroit, USA.

These collaborations create development platforms that bring together industry innovators to enable rapid prototyping, validation, and commercialization.



Lower carbon footprint

A panel-reviewed third-party study* indicates Proxima resin systems have a reduced cradle-to-manufacturing output gate carbon footprint compared to other traditional thermosets.

Proxima resin systems have a carbon footprint of product (CFP) estimate:

~60% lower than comparable epoxy resin.**

Scan the QR code for our LCA Study summary and disclaimers



Could Proxima technology be a breakthrough solution for you?

*Source: Comparative Carbon Footprint of Product - ExxonMobil's Proxima™ Resin System to Alternative Resin Systems, June 2023, prepared by Sphera Solutions, Inc. for ExxonMobil Technology and Engineering Company. The study was confirmed to be conducted according to and in compliance with ISO 14067:2018 (Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification) by an independent third party critical review panel.

**All resins assessed in this Life Cycle Assessment (LCA) study were of the type used in molding applications. Specifically, the epoxy resin system was of the type used in VARTM wind blade production. The resin systems are representative of formulated resin systems and include any required curing hardeners or catalysts. Sensitivity ranges of CFP estimates from the LCA study for polyurethane, vinyl ester, and epoxy systems are based on literature review and data from Sphera Solutions, Inc.

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