



What is Proxxima™ polyolefin thermoset resin systems

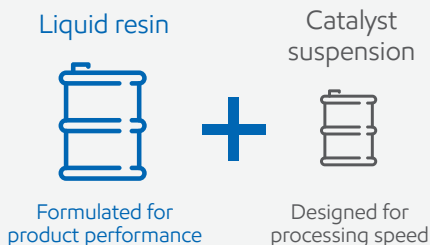
ExxonMobil is creating new possibilities with its revolutionary Proxxima polyolefin thermoset resin systems.

These two part resin systems can create value in composites, coatings, and neat molded polymer applications.

How Proxxima systems work

- Proxxima resin systems are comprised of a liquid resin formulation plus a catalyst formulation
- Resin formulation is tailored to the application, while catalyst speed is selected to suit processing needs

Proxxima resin systems



Composites



Coatings



Pure polymer



Operational advantages



Fast Infusion

Ultra-low viscosity enables faster cycles and opens opportunities for new part geometries without void defects.



Adaptable

Compatible with a range of fibers and fillers including carbon, glass, and flax.



Controlled rapid cure

Optimize curing needs from seconds to hours to match production needs.

Product performance advantages



Lightweight

Delivers performance with less resin and leads to installation or use efficiencies.



Tough

Offers a broad product portfolio designed to out-perform traditional epoxies and meet demanding structural and durability requirements.



Hydrophobic

Inherent anti-corrosion protection with remarkable chemical resistance to perform in harsh environments.

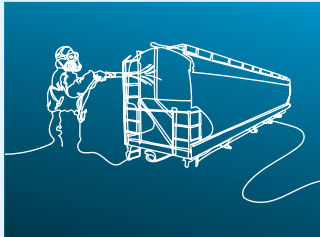
Make it Proxxima™

A solution that empowers value chains to create breakthroughs across broad applications

The unique molecular structure allows for tailored solutions that meet demanding industry standards, helping business owners innovate with confidence, no matter the application.

Coatings

(vs. epoxy and polyurethane)



- Fast dry and return to service
- Superior toughness and corrosion protection

Infrastructure

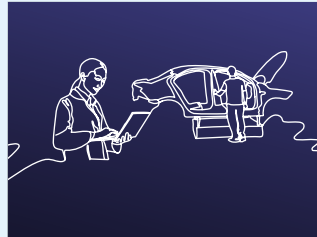
(vs. steel and thermosets)



- Corrosion resistance, high strength
- Lighter materials driving productivity gains

Mobility

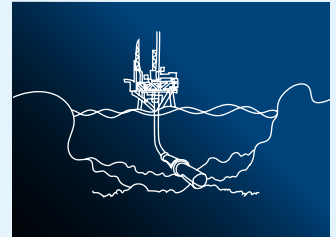
(vs. steel, aluminium, epoxy)



- Composite cycle time reduction and scale
- Light-weight, higher-performing, part geometries

Oil and gas

(vs. multilayer systems)



- Superior hydrophobic thermal insulation
- Installation efficiency (1 layer replaces many)

ExxonMobil commitment to Proxxima solutions

- Ongoing expansion of supporting facilities
 - Baytown Technology Proxxima™ Application Hall
 - Three customer collaboration hubs opening by 1H26
- Building out global network to deliver in-region supply
 - All facilities to be ISO 9001 compliant
 - Functional equivalency planned for supply redundancy
 - Plan to ramp capacity up to nearly 200,000 metric tons per year by 2030

Lower carbon footprint

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

Proxxima 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 Proxxima technology be a breakthrough solution for you?

*Source: Comparative Carbon Footprint of Product - ExxonMobil's Proxxima™ 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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