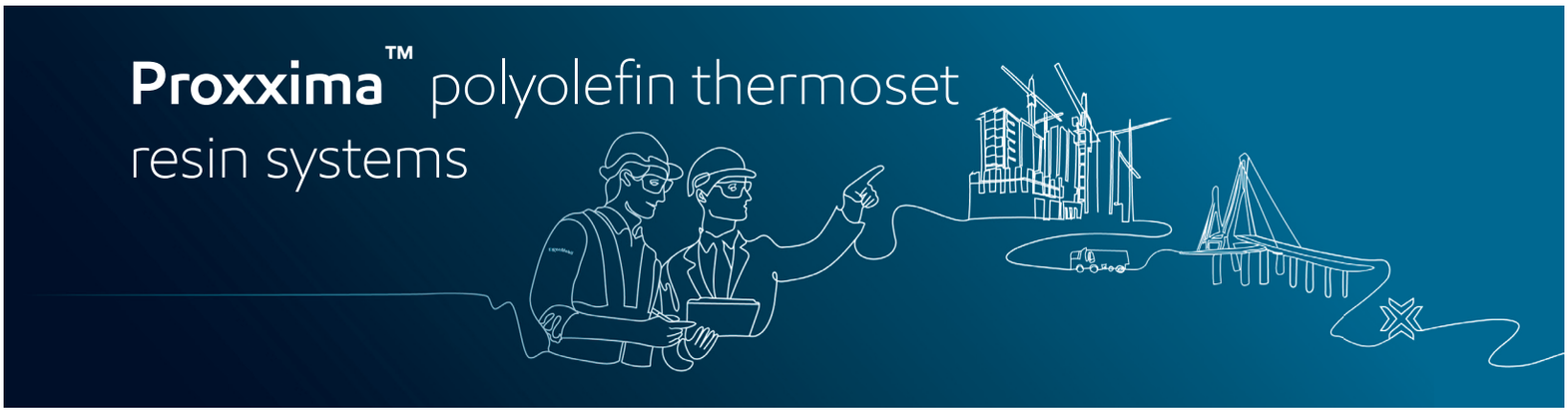
Proxxima™

Infrastructure

Proxxima™ polyolefin thermoset resin systems



Raising expectations in infrastructure

Proxxima™ polyolefin thermoset resin systems deliver an exceptional balance of strength and toughness. Low viscosity and quick cure rate enable redesign of complex parts for higher efficiency, and higher production speeds.

Enabling parts that are lighter, stronger and more durable than steel and other thermosets, Proxxima™ resin systems are a game changer for infrastructure.

	Proxxima™ resin systems attributes	Value chain benefits
	Lighter than steel	Lower density, easy handling, lower transport cost
	Low to super low viscosity	High fiber wet-out, high processing speed without defects
	Faster processing	Tunable viscosity and faster cure rates lead to higher output
	Hydrophobic	Corrosion resistance
	Chemical resistance	Longer life than steel in harsh environments
	Tougher	Replacement of metal, outstanding impact resistance
	Longevity	Excellent durability and flex fatigue for longer life

Our technology is being adopted in major industrial markets for applications such as:

- Chemical process tanks
- Waste water treatment units
- Industrial cooling towers
- Concrete protection
- Pultruded profiles

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Advantages over traditional building materials:

- **Lightweight:** Enhances worksite productivity and efficiency.
- **Design flexibility:** Enables complex geometry and part integration.
- **Efficient processing:** Enhances manufacturing efficiency across a range materials and processes.
- **Corrosion free:** Extends infrastructure lifespan and reduces maintenance costs.

Processing

Proxxima™ resin systems work with or without fibers. With tuneable properties, they are compatible with a wide range of fibers, including glass and carbon.
They can also be customized to meet your specific processing requirements:

Process Technology	Compatible with Proxxima™ resin systems
RIM	✓
RTM	✓
VARTM	✓
Pultrusion	✓
Filament Winding	✓

Lower carbon footprint

A recent panel-reviewed third-party study* indicates that our Proxxima™ resin system has 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 and disclaimers

Could Proxxima™ technology be a revolutionary solution for you?

Contact us to discover how Proxxima™ resin systems can help you bring innovation to your business.

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*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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