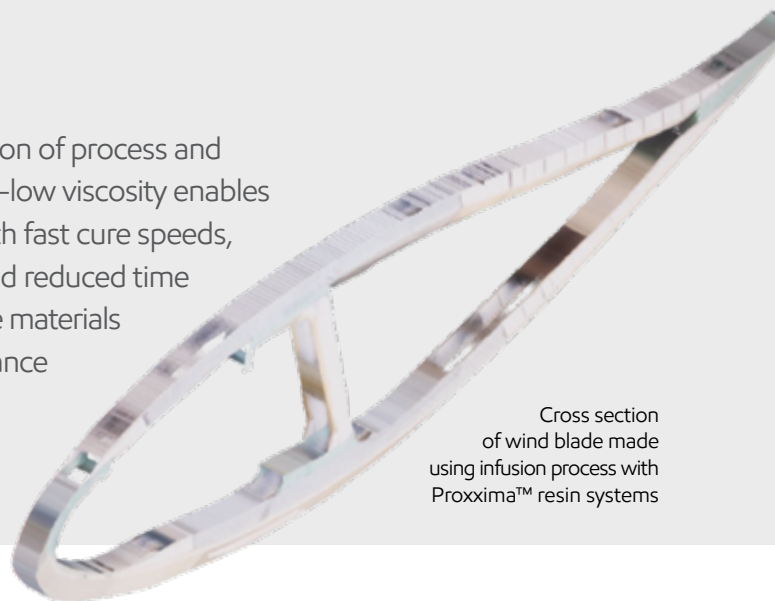


Enabling rapid processing

Proxxima™ polyolefin thermoset resin systems

Tailored performance for RTM

Proxxima resin systems offer an unparalleled combination of process and performance advantages for infusion processes. Its ultra-low viscosity enables rapid infusion speeds and low void content. Coupled with fast cure speeds, Proxxima resin systems allow for improved cycle time and reduced time in mold. The low resin density produces lighter composite materials and exceptional toughness and delivers improved resistance to challenging environments. Proxxima systems are uniquely formulated to work well in VARTM.



Cross section of wind blade made using infusion process with Proxxima™ resin systems



**Fast
infusion**



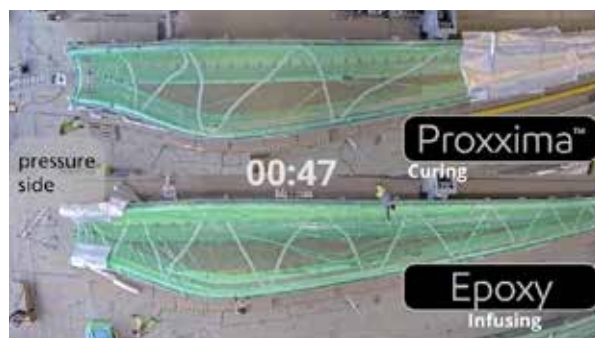
**Fast
heat cure**



Tough



Light



Proxxima systems enable ultra-fast infusions as shown in this wind blade component example. Scan the QR code to watch the full video.



Proxxima resin grades for infusion processes

All grades deliver the key attributes listed above with additional benefits and balance of properties, as highlighted in the table. Speak to your ExxonMobil representative for more information on which grade is best suited to your application needs.

Resin grade	Stiffness	Viscosity (cP)	Fiber compatibility	Tg
R3650	Higher	~40	Carbon, Glass, Flax	Lower
R3630		~20		Higher
R3600	Lower	~15	Glass	
R3100				

Proxxima™ resin systems processing information

The Proxxima technology offers controllable curing speed from seconds to hours, matching your specific processing parameters or part design/size constraints. For all Proxxima resin and catalyst systems, the mix ratio of resin to catalyst is 50:1 by weight. The table below summarizes cure conditions, which are a starting point for optimization in your process, for the highlighted processes.

Vacuum Infusion Processing

Proxxima for Vacuum Infusion Processing Catalyst: C32	
Stage description	Tooling temperature / Time
Dwell	40°C / 1h
Ramp	1-2°C / min
Post-cure	100°C / 2h
Cooldown	1-2°C / min

Proxxima resin formulations should be degassed before processing via infusion. Due to the low viscosity, the resins don't require heating before injection into the mold.

Proxxima can perform across a range of fiber types and weaves, long flow paths, complex geometries, multiple thicknesses and super thick cross sections.

Epoxy



Exp 1188-7 (90)

Proxxima™



Exp 1189-6 (90)

Enduring toughness

Whether it's a singular detrimental bump, repeated impacts or fatigue, Proxxima-made parts will exceed lifetime usually observed with composite parts including when used in cold or hot-wet environments.

- Excellent G1C results
- Much delayed and predictable fatigue break
- Reduced delamination area under impact, with maintained tenacity
- Ductile failure mode

Falling weight impact ASTM D7136-07

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