

Enhancing speed and performance in pultrusion

Proxxima™ polyolefin thermoset resin systems

Higher performance with faster throughput

Fast cure and low viscosity enable pultrusion lines to run very fast and boost output while improving part performance.



Pultrusion process in action with Proxxima resins.



Fast throughput – up to 2x speed advantage

Low viscosity + snap cure enable fast fiber wet-out and cure compared to traditional resins.



Higher performance – up to 87%/wt fiber loading*

Low viscosity enables higher fiber loading providing additional strength and raw material savings.



Extreme durability

Exceptional toughness.



Excellent chemical resistance

Potential for extending product life, requiring less maintenance.



Hydrophobic

Corrosion resistant.

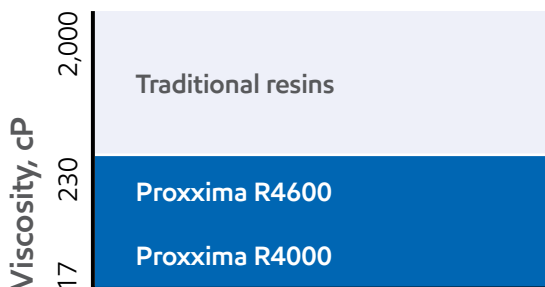
Inherently low viscosity and tunable snap-cure catalyst for injection and bath-based systems



A range of viscosity and activity

Low viscosity

Enables fast fiber wet-outs and high fiber / filler loadings driving lower costs and improved performance.



Process overview

Typical formulation mix

50:1 mix ratio
+ Internal mold release

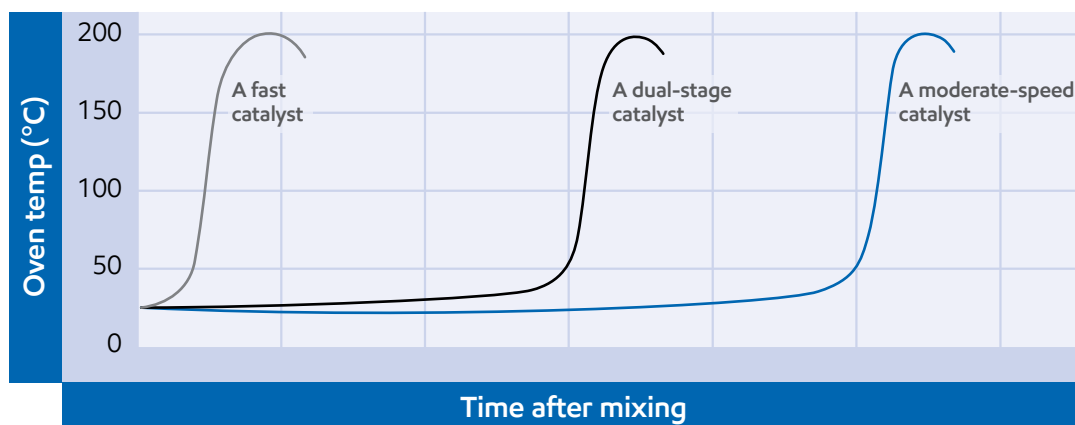
Process temperatures

Gel zone: 100 – 110°C

Cure zone: 160 – 175°C

Tunable snap-cure

Drives fast process speeds with fit in injection and bath-based processes.



Composites performance highlight

Proxxima R4600 and C46 all roving laminate at 1.3m/min	
Fiber loading*	87%/wt
ILSS**	58 MPa
0° Flex strength**	1,280 MPa

Material properties

Proxxima materials	R4000 C42	R4600 C46
Tensile strength** (MPa)	71	65
Tensile modulus** (GPa)	2.4	2.6
Glass transition temperature (Tg)** (°C)	126	140

*Plank data set was prepared using Owens Corning OC 366 (113 Yield, 4400 Tex) Fiberglass Roving

**ExxonMobil test methods

Could Proxxima technology be a breakthrough solution for you?

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