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 at higher rates and boost output, while improving part performance.





Faster throughput – up to 2x speed advantage

Low viscosity + snap cure enable fast fiber wet-out and cure.



Extreme durability

Exceptional toughness and fatigue life.



Excellent chemical resistance

Potential for extending product life, requiring less maintenance.



Higher performance – up to 87%/wt fiber loading

Low viscosity enables higher fiber/filler loading for higher strength. It also enables thinner profiles with equivalent fiber loading for raw material savings.



Hydrophobic

Low moisture uptake for corrosion resistance.

Proxxima™

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

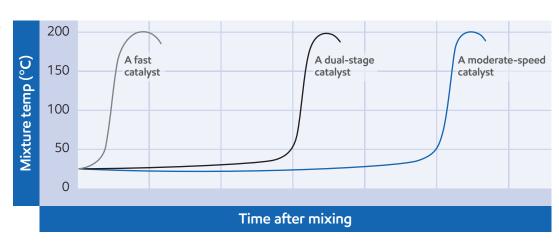
+ Internal mold release

Process temperatures

Gel zone: 100 – 110°C Cure zone: 160 – 175°C

Tunable snap-cure

Drives fast process speeds with fit in injection and bathbased processes.



Composites performance highlight

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

^{*}Calculated

Non-reinforced Proxxima™ resin 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

^{***} ASTM D638

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

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^{**}ExxonMobil test methods

^{****} ASTM E1356