

Raise your expectations of thermosets

Unlocking Reaction Injection Molding (RIM) potential with Proxxima™ polyolefin thermoset resin systems

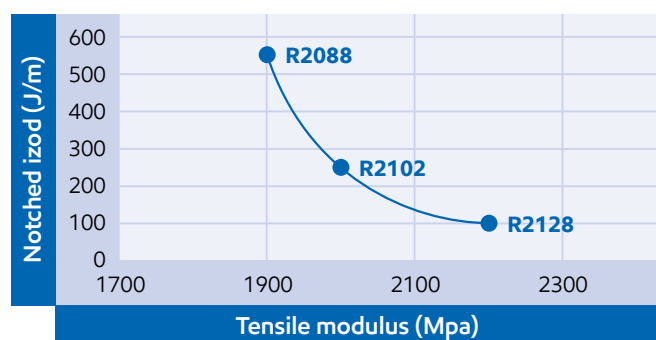
This versatile portfolio of RIM systems unlocks new possibilities in DCPD molding. Proxxima™ resin systems are two-component liquid formulations engineered to optimize both processing efficiency and finished-part performance—empowering manufacturers to push the boundaries of what’s possible in RIM production.



Proxxima systems for RIM deliver a wide range of mechanical performance

Now expanded with the high-toughness Proxxima R2088 and the high-temperature-resistant Proxxima R2128.

	Standard	Unit	R2102	Proxxima R2088	R2128
Initial viscosity	Internal	cP	230	254	480
Tensile strength	ASTM D638	MPa	48	43	61
Tensile modulus	ASTM D638	MPa	2000	1900	2200
Notched izod (fresh samples)	ASTM D256	J/m	260	530	100
Water absorption (24h immersion)	ASTM D570	Wt.%	0.04	0.02	0.03
Elongation at yield	ASTM D638	%	2.7	4	3
Elongation at break	ASTM D638	%	33	38	21
Glass transition T by DSC	ASTM E1356	°C	139	131	184

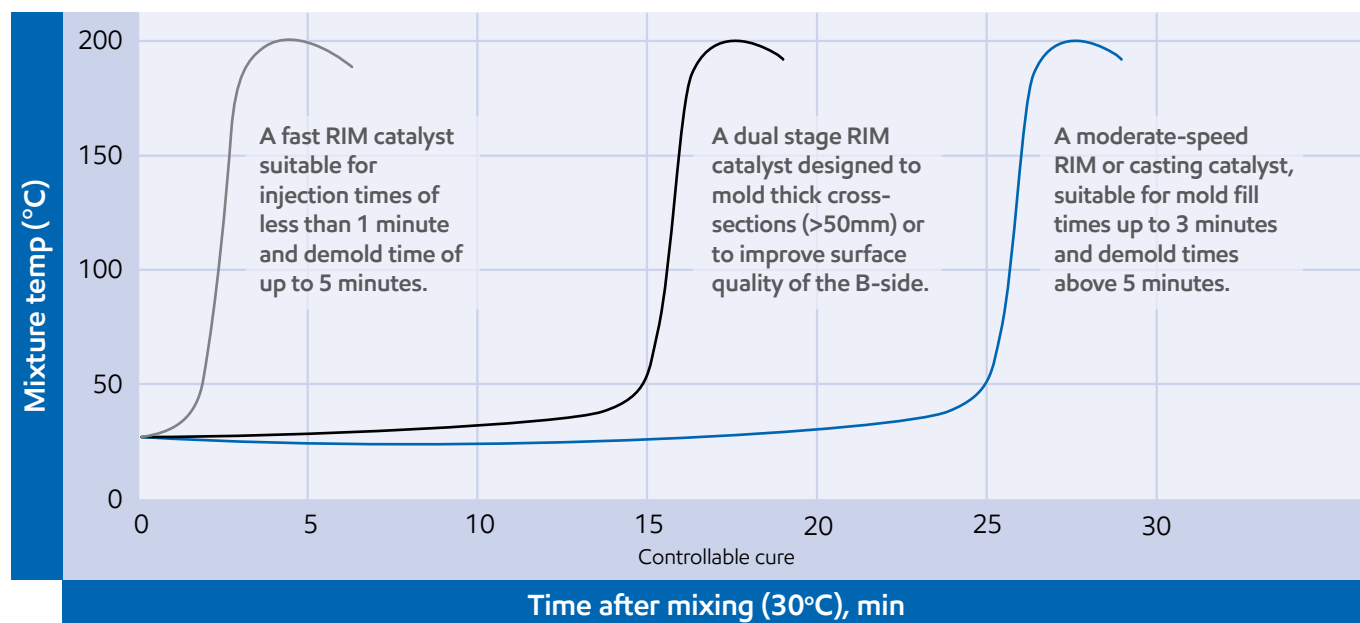


Proxxima resin systems are formulated to achieve an optimized balance of impact toughness and modulus.

Low viscosity and flexible cure rates allow manufacturers to create complex, high-precision parts while streamlining processes and minimizing tooling and assembly expenses.

Proxxima resin systems are resistant to oxygen and moisture, enabling easy handling. Polymerization is not hindered by the mixing or molding environment and typically releases less odor than first-generation polynorbornene systems.

Proxxima™ systems offer a tunable cure to best match your process needs



Engineered for Demanding Applications

Proxxima RIM systems are purpose-built to deliver exceptional durability in the toughest environments. Designed for components exposed to acidic or alkaline conditions, they offer reliable, long-lasting performance.

Chemical	Temperature	12 Month	Parts made with Proxxima resin systems provide 9+ years of service life in caustic environment of chlor-alkali electrolysis.
Sulfuric acid (50%)	60 °C	Pass	
Sodium hypochlorite (15%)	60 °C	Pass	
Chlorine dioxide (3 g/L)	60 °C	Pass	
Phosphoric acid (70%)	90 °C	Pass	
Sodium hydroxide (50%)	90 °C	Pass	
Hydrochloric acid (30%)	90 °C	Pass	
Propylene glycol	90 °C	Pass	Polymer performance Test method: ASTM C581-15 Pass: <5% decrease in properties

Could Proxxima technology be a breakthrough solution for you?

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