# Raise your expectations of thermosets

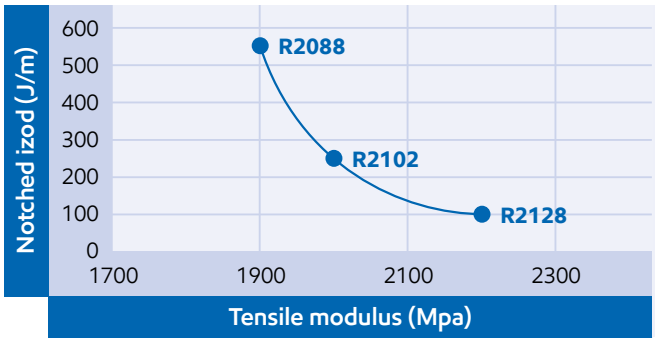
## Unlocking Reaction Injection Molding (RIM) potential with Proxxima™ polyolefin thermoset resin systems

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.

| | | | Proxxima | | |
|---|---|---|---|---|---|
| | Standard | Unit | R2102 | 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 |



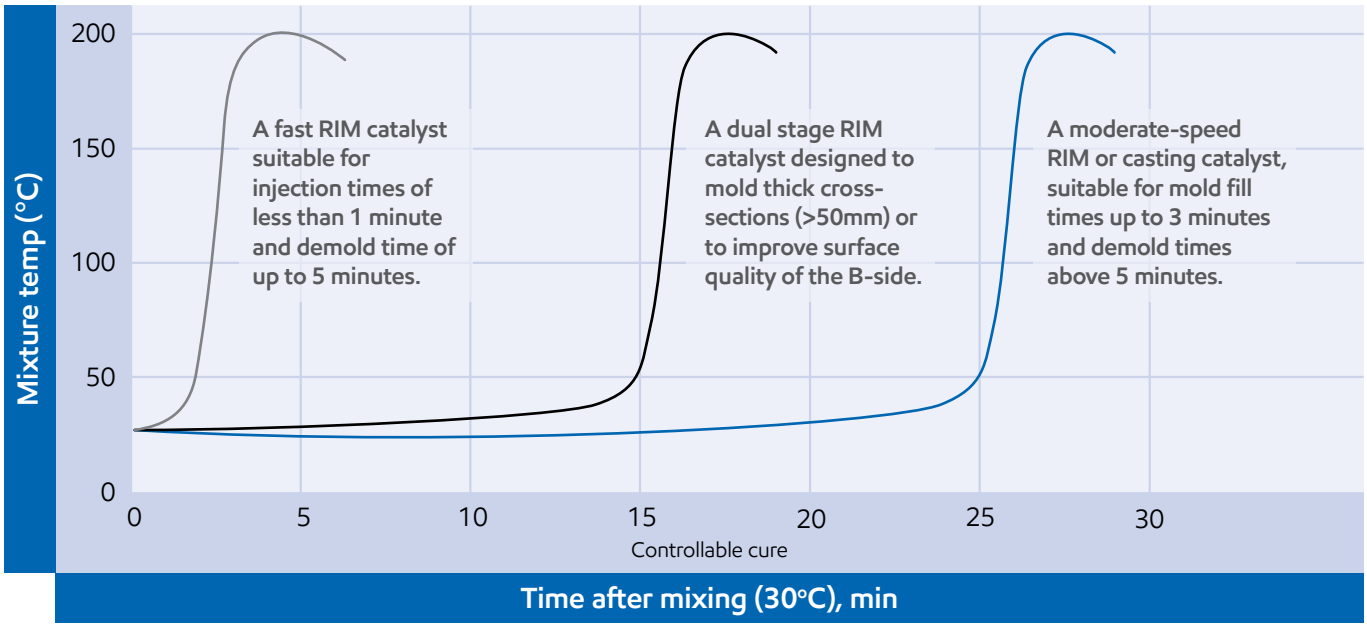

**Proxxima resin systems are formulated to achieve an optimized balance of impact toughness and modulus.**

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™

## 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 |
|---|---|---|
| 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 |

**Parts made with Proxxima resin systems provide 9+ years of service life in caustic environment of chlor-alkali electrolysis.**

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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