# RESIPUR™ 9189



RESIPUR™ 9189 is an orthophthalic unsaturated polyester resin of medium reactivity, pre-accelerated and thixotropic. RESIPUR™ 9189 is an opaque pink liquid that is free of impurities. RESIPUR™ 9189 emits low amounts of styrene during the curing process. As such RESIPUR™ 9189 has an improved environmental profile.

For further information regarding this product please refer to:

Construction Synthomer

eMail: Construction@synthomer.com

| Property | Typical Value | Unit | Method[1] |
|---|---|---|---|
| Polymer Content | 59 | % | ISO 3251 |
| Viscosity @ 25 °C (Brookfield RVT s21; 20 rpm) | 350 - 450 | mPa·s | ISO 2555 |
| Gel Time @ 25 °C (2% MEKP at 50 %) | 8 - 14 | min | ASTM D 2471 |
| Thixotropy Index @ 25°C (Brookfield RVT s21; 2/20 rpm) | >2.5 | | ISO 2555 |
| Density @ 20°C | approx. 1.09 | g/cm³ | ISO 2811-1 |
| Flash Point | approx. 32 | °C | ISO 3679 |
| | | | |
| Properties of Cured Resin | | | |
| Tensile Strength | 63 | MPa | ISO 527 |
| Elongation at Break | 2.8 | % | ISO 527 |
| E-Modulus | 3820 | MPa | ISO 527 |
| Flexural Strength | 115 | MPa | ISO 178 |
| Barcol Hardness | 49 | | ASTM D 2583 |
| Shrinkage on Curing | 8.9 | % | ISO 3521 |
| Water Absorption @ 23 °C (7 days) | 0.4 | % | ISO 62 |
| HDT | 71 | °C | ISO 75-A |

[1] internal method based upon the specified norm

## Application Advice

RESIPUR™ 9189 is designed for use in rigid laminates produced by hand lay-up or spray-up.

RESIPUR™ 9189 may be cured at room temperature by means of the addition of an initiator (e.g. methyl ethyl ketone peroxide - MEKP). In order to improve the surface curing, a solution of paraffin in styrene may be added. To obtain the ideal curing, it is recommended that the molded piece should not be used until 7 days after manufacture. The lamination of consecutive layers with more than 24 hours of interval is not recommended.

The application viscosity may be adjusted through the addition of styrene. The specification data in this technical data sheet is for the unmodified product without addition of styrene.

The delivery form of RESIPUR™ 9189 is approx. 59 % of polymer diluted in styrene.

For additional information, please contact our Technical Service team.

## Shipping and Storage

RESIPUR™ 9189 should be stored in the original and unopened containers and in the absence of light for no longer than 3 months at a temperature below 25°C. Higher temperatures may significantly decrease storage stability.

## Product Safety

Before handling, please read the Safety Data Sheet of this product for advice on safety, use and disposal.