

Resipur 9166 is an orthophthalic unsaturated polyester resin of medium reactivity, pre-accelerated and thixotropic.

Resipur 9166 is an opaque pink liquid, free of impurities.

Resipur 9166 is certified for naval construction by Lloyd's Register.

For further information regarding this product please refer to:

Jean-Luc Montanari

Phone: + 33 6 73 99 68 44

eMail: Jean-Luc.Montanari@synthomer.com

DELIVERY FORM:

RESIPUR 9166: Approx. 59 % of polymer diluted in styrene.

Property	Typical Value	Unit	Method ¹
Viscosity @ 25 °C (Brookfield RVT #2/20 rpm)	400	mPas	ISO 2555
Gel Time @ 25 °C (2% MEKP at 50 %)	14	min	ASTM D 2471
Polymer Content	59	%	ISO 3251
Thixotropy Index @ 25°C (Brookfield RVT #2/20 rpm @25 °C)	>2.5		ISO 2555
Density @ 20°C	approx. 1.10		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

APPLICATIONS

Rigid laminates produced by hand lay-up or spray-up.

PROCESSING

Resipur 9166 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.

Disclaimer: This information or data and any other advice or recommendations given or made by us (collectively "Information") are not intended to, nor do they, constitute professional advice or services. Information is provided "AS IS" and on an "AS AVAILABLE" basis and without warranty. We do not warrant or accept responsibility for the accuracy, timeliness or completeness of the Information or data or its suitability for a particular purpose. Synthomer makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Synthomer disclaims (i) any and all liability arising out of the application or use of any product (including as to infringement of third party intellectual property rights), (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability. Any Information concerning any possible use or application of Synthomer products is given by us in good faith and it is entirely for you to satisfy yourself fully as to the suitability of Synthomer products for any particular purpose. Synthomer products are sold in accordance with Synthomer's standard terms and conditions of sale which are available from www.synthomer.com/tc.

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.

Shipping and Storage

STORAGE

Resipur 9166 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.