

Resipur 9107 is an orthophthalic unsaturated polyester resin of medium reactivity.

Resipur 9107 is a transparent yellow liquid, free of impurities.

Resipur 9107 is used in laminate surfaces that have contact with food.

DELIVERY FORM: Approx. 66 % of polymer diluted in styrene.

Property	Typical Value	Unit	Method ¹
Viscosity @ 25 °C (Brookfield RVT #2/20 rpm)	550	mPas	ISO 2555
Gel Time @ 25 °C	10	min	ASTM D 2471
Polymer Content	66	%	ISO 3251
Acid Value	19	mg KOH/g	ISO 2114
Density @ 20°C	approx. 1.12		ISO 2811-1
Flash Point	approx. 32	°C	ISO 3679
Reactivity (0.2 % Co at 6% + 2 % MEKP at 50%)			ASTM D 2471
25 °C - T max.	12 - 18	min	
T max.	160 - 180	°C	
Properties of Cured Resin			
Tensile Strength	69	MPa	ISO 527
Elongation at Break	3.5	%	ISO 527
E-Modulus	3820	MPa	ISO 527
Flexural Strength	112	MPa	ISO 178
Barcol Hardness	46		ASTM D 2583
Shrinkage on Curing	7.7	%	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 filament winding.

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PROCESSING

Resipur 9107 may be cured at room temperature by means of the addition of an accelerator (e.g. Cobalt) and 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.

Shipping and Storage

STORAGE

Resipur 9107 should be stored in the original and unopened containers and in the absence of light for no longer than 6 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.