

## Description

Unsaturated orthophthalic polyester resin, diluted in styrene, preaccelerated with very low viscosity and slow reactivity.

## Applications

SIRESTER FS 0994/AR is suitable for closed mould applications as infusion or injection, in particular for nautical purposes: it provides efficient wetting capability, low exothermic peak and good mechanical strengths. Lloyd's Register certification n° LR22412959ALP.

## Sales specification

Property	Value	Unit	Method
Acid number	≤ 30	mg KOH/ g	SIR 10231
Viscosity Brookfield at 25 °C	100 - 130	mPa s	SIR 10017

## Typical Properties

Property	Value	Unit	Method
Appearance	Blue hazy	-	SIR 10010
Styrene content	46	%	SIR 10257
Gel time at 25 °C <sup>(1)</sup>	45	minutes	SIR 10276
Hardening time	85		SIR 10276
Exothermic peak	140	°C	SIR 10276
Stability at 65°C	6	days	SIR 10242

(1) Formulation: 100 gr resin + 2,00 ml MEKP-50.

During long storage a slight increase of the geltime can occur: we suggest to adjust the amount of catalyst in order to obtain correct values.

SIRESTER<sup>®</sup>: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

To our best knowledge, the information contained in this brochure is accurate and corresponds to the truth.

However, any recommendations or suggestions are provided without any guarantee, since the conditions in which the products are used are not under our control. Furthermore, nothing contained in this brochure shall be interpreted as a recommendation for using the product in violation of any patents relating to the material and their uses.

## Mechanical properties of pure cured resin (\*)

Property	Value	Unit	Method
Barcol hardness	40		EN 59
Flexural strength	95	MPa	ISO 178
E-Module, flexion	3600	MPa	ISO 178
Tensile strength	70	MPa	EN ISO 527
E-Module, tension	3400	MPa	EN ISO 527
Elongation at break	2,0	%	EN ISO 527
HDT	65	°C	EN ISO 75 A

(\*) typical properties, not suitable for specifications; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

## Mechanical properties of the reinforced resin (glass/resin 30/70) (\*)

Property	Value	Unit	Method
Flexural strength	200	MPa	ISO 14125
E-Module, flexion	8100	MPa	ISO 14125
Tensile strength	100	MPa	EN ISO 527
E-Module, tension	8200	MPa	EN ISO 527

(\*) typical properties, not suitable for specifications; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

## Supply Form

Product is available in a 225 kg lined drum, 1000 kg container or in bulk.

## Storage stability

The product is stable for 6 months if stored in the original unopened packaging), below 30 °C and away from direct sunlight and heat sources. Keep away from iron and copper salts, organic and inorganic peroxides.

## Safety

The product is flammable and harmful. Further information is provided in the relevant safety data sheet.

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