

SIRESTER[®] FSN 0850/AR

**PRODUCT DATA
SHEET**
RP/0850AR/072020

Description

Orthophthalic unsaturated polyester resin, diluted in styrene, preaccelerated with slow reactivity and very low viscosity.

Applications

SIRESTER FSN 0850/AR is suitable for closed mould applications as infusion or injection, in particular for nautical purposes; it provides high impregnation of fibreglass and good mechanical properties, along with reduced exothermic peak. Lloyd's Register approval n° LR21112921ALP.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 30	mg KOH/g	SIR 10231
Viscosity at 25 °C	80 – 100	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Styrene content	46	%	SIR 10257
Gel time at 25 °C ⁽¹⁾	45	minute	SIR 10276
Hardening time	85		SIR 10276
Exothermic peak	140	°C	SIR 10276
Stability at 65 °C	6	day	SIR 10242

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

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

SIRESTER[®]: 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.

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Mechanical properties of pure cured resin

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	100	MPa	EN 63
E-Module, flexion	3900	MPa	EN 63
Tensile strength	70	MPa	EN 61
E-Module, tension	3800	MPa	EN 61
Elongation at break	2,5	%	EN 61
HDT	75	°C	EN ISO 75 A

Mechanical properties of reinforced resin (glass/resin 30/70)

Property	Value	Unit	Method
Flexural strength	200	MPa	EN 63
E-Module, flexion	8900	MPa	EN 63
Tensile strength	110	MPa	EN 61
E-Module, tension	9200	MPa	EN 61

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 a stainless steel tank or lined drums (avoid glass fibre based containers or tin plated drums), at 20 °C temperature, in a dark/ventilated place. 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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