

SIRESTER[®] VE 45-M-90/AR

PRODUCT DATA SHEET

RV/45M90AR/092015

Description

Vinylester, epoxy-bisfenol A based promoted resin, diluted in styrene, accelerated with long gel time and low viscosity.

Applications

SIRESTER[®] VE 45-M-90/AR is indicated where high chemical resistance towards a wide range of substances is demanded. The low viscosity makes it particularly suitable for processes like injection moulding, RTM and infusion. This resin grants very good mechanical properties.

Sales specification

Properties	Value	Unit	Method
Acid number	<15	mg KOH/gr	SIR 10231
Viscosity at 25 °C	150 – 200	mPa.s	SIR 10017

Typical Properties

Properties	Value	Unit	Method
Appearance	Clear rose liquid	n. d.	SIR 10010
Styrene content	45	%	SIR 10352
Gel time at 25 °C ⁽¹⁾	60	minutes	SIR 10334
Stability at 65 °C	6	days	SIR 10242

(1) Formulation: 100 g resin + 1,25 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	150	MPa	EN 63
E-Module, flexion	3900	MPa	EN 63
Tensile strength	85	MPa	EN 61
E-Module, tension	3400	MPa	EN 61
Elongation at break	3,0	%	EN 61
HDT	102	°C	EN ISO 75 A

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

Property	Value	Unit	Method
Flexural strength	220	MPa	EN 63
E-Module, flexion	8100	MPa	EN 63
Tensile strength	130	MPa	EN 61
E-Module, tension	8300	MPa	EN 61

Supply Form

Product is available in a 200 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 peroxide. To mix the product before use is suggested.

Safety

The product is flammable and harmful.

Further information is provided in the relevant safety data sheet.

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