

SIRESTER[®] VE 45-M-90/AT

**PRODUCT DATA
SHEET**
RV/45M90AT/052021

Description

Epoxy bisphenol-A based vinylester resin, diluted in styrene, preaccelerated and thixotropic, with medium reactivity and medium viscosity.

Applications

SIRESTER[®] VE 45-M-90/AT is indicated for general purposes, in all those cases where high chemical resistance towards a wide range of substances is required. The excellent mechanical properties make it suitable for different and wide fields of application. Lloyd's Register approval n° LR21112933ALP.

Sales specification

Properties	Value	Unit	Method
Acid number	< 15	mg KOH/gr	SIR 10231

Typical Properties

Properties	Value	Unit	Method
Appearance	Rose hazy		SIR 10010
Styrene content	43	%	SIR 10257
Thixotropic index at 25 °C	> 2,5		SIR 10215
- 2 rpm	> 2000	mPa s	SIR 10215
- 20 rpm	< 800	mPa s	SIR 10215
Gel time at 25 °C ⁽¹⁾	23	minute	SIR 10334
Shelf life at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr 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	ISO 178
E-Module, flexion	3800	MPa	ISO 178
Tensile strength	85	MPa	EN ISO 527
E-Module, tension	3300	MPa	EN ISO 527
Elongation at break	5	%	EN ISO 527
HDT	102	°C	EN ISO 75 A

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 3 hours 100 °C

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

Property	Value	Unit	Method
Flexural strength	230	MPa	ISO 14125
E-Module, flexion	8000	MPa	ISO 14125
Tensile strength	130	MPa	EN ISO 527
E-Module, tension	8300	MPa	EN ISO 527

(*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 3 hours 100 °C

Supply Form

Product is available in a 200 kg lined drum, 1000 kg container or in bulk.

Storage guidelines

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. Thixotropy properties are guaranteed for 3 months: a long period of storage can cause slight segregation of the solid part of the product. Stir the resin before use.

Safety

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

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