

# SIRESTER<sup>®</sup> VE 45-M-90

## PRODUCT DATA SHEET

RP/VE45M90/052024

### Description

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

### Applications

SIRESTER VE 45-M-90 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. Drinkable water contact certification n° 067/12 by Politecnico di Milano. Lloyd's Register approval n° LR21112933ALP.

### Sales specification

Property	Value	Unit	Method
Acid number	≤ 15	mg KOH/g	SIR 10231
Viscosity at 25°C	500 - 600	mPa s	SIR 10017

### Typical Properties

Property	Value	Unit	Method
Appearance	Clear	-	SIR 10010
Styrene content	38	%	SIR 10257
Gel time at 25 °C <sup>(1)</sup>	15	minutes	SIR 10277
Time to peak	10	minutes	SIR 10277
Exothermic peak	175	°C	SIR 10277
Stability at 65°C	6	days	SIR 10242

(1) Formulation: 100 gr resin + 0,30 ml Co (octoate) 6% + 0,10 ml DEAA + 1,25 ml MEKP-50.

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	150	MPa	ISO 178
E-Module, flexion	3800	MPa	ISO 178
Tensile strength	85	MPa	EN ISO 527
E-Module, tension	3500	MPa	EN ISO 527
Elongation at break	5,0	%	EN ISO 527
HDT	105	°C	EN ISO 75 A

(\*) typical properties, not suitable for specifications; 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	8500	MPa	ISO 14125
Tensile strength	130	MPa	EN ISO 527
E-Module, tension	8600	MPa	EN ISO 527

(\*) typical properties, not suitable for specifications; 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 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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