

SIRESTER[®] VE 14-M-110/AT

PROVISIONAL DATA SHEET

RV/14M110AT/122017

Description

Epoxy bisphenol-A based 100%-vinylester resin, diluted in styrene, thixotropic and preaccelerated with medium reactivity and medium viscosity.

Applications

SIRESTER[®] VE 14M110/AT is a general purpose material, suitable in particular for marine and skin or bulk laminate applications; its special formulation assures a low styrene content (< 35%) in association with superior mechanical strengths and heat resistance.

Sales specification

Properties	Value	Unit	Method
Acid number	< 12	mg KOH/gr	SIR 10231

Typical Properties

Properties	Value	Unit	Method
Appearance	Turbid rose		SIR 10010
Styrene content	< 35	%	SIR 10352
Thixotropic index	> 2,5		SIR 10215
Viscosity at 25 °C 2 rpm	> 2500	mPa s	SIR 10215
Viscosity at 25 °C 20 rpm	< 1000	mPa s	
Gel time at 25 °C ⁽¹⁾	25	minute	SIR 10344
Time to peak	35	Minute	SIR 10344
Exothermic peak	165	°C	SIR 10344
Shelf life at 65 °C	6	day	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	40		EN 59
Flexural strength	150	MPa	EN 63
E-Module, flexion	3600	MPa	EN 63
Tensile strength	80	MPa	EN 61
E-Module, tension	4000	MPa	EN 61
Elongation at break	3,5	%	EN 61
HDT	112	°C	EN ISO 75 A

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

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

Property	Value	Unit	Method
Flexural strength	200	MPa	EN 63
E-Module, flexion	8600	MPa	EN 63
Tensile strength	120	MPa	EN 61
E-Module, tension	8500	MPa	EN 61

(*) 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 stability

The product is stable for 3 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. A long period of storage can cause slight segregation of the solid part of the product: stirring the material before using is strictly suggested.

Safety

The product is flammable and harmful.

Further information is provided in the relevant safety data sheet.

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