

SIRESTER[®] VE 64-M-140

PRODUCT DATA SHEET

RP/VE64M140/052024

Description

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

Applications

SIRESTER VE 64-M-140 is suitable for general purposes, in particular for filament winding applications, in all those cases where high chemical resistance towards a wide range of substances is required: it provides good wetting properties and very high mechanical strengths. Drinkable water contact certification n° 067/12 by Politecnico di Milano.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 15	mg KOH/g	SIR 10231
Viscosity at 25°C	400 - 500	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear	-	SIR 10010
Styrene content	32	%	SIR 10257
Gel time at 25 °C ⁽¹⁾	20	minutes	SIR 10277
Time to peak	6	minutes	SIR 10277
Exothermic peak	190	°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[®]: 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	45		EN 59
Flexural strength	120	MPa	ISO 178
E-Module, flexion	4200	MPa	ISO 178
Tensile strength	70	MPa	EN ISO 527
E-Module, tension	3800	MPa	EN ISO 527
Elongation at break	3,0	%	EN ISO 527
HDT	150	°C	EN ISO 75 A

(*) typical properties, not suitable for specifications; postcuring cycle: 24 hours 25 °C + 3 hours 120 °C

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

Property	Value	Unit	Method
Flexural strength	210	MPa	ISO 14125
E-Module, flexion	8800	MPa	ISO 14125
Tensile strength	120	MPa	EN ISO 527
E-Module, tension	9500	MPa	EN ISO 527

(*) typical properties, not suitable for specifications; postcuring cycle: 24 hours 25 °C + 3 hours 120 °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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