

Description

Unsaturated orthophthalic polyester resin, diluted in styrene, with medium reactivity and medium viscosity, thixotropic and preaccelerated.

Applications

SIRESTER FS 0995/ATM/E is suitable for general purposes and in particular for the production of fibreglass storage tanks by Hand Lay-up or Spray-up technology. Summer version for cold season/environment.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 30	mg KOH/g	SIR 10231

Typical Properties

Property	Value	Unit	Method
Appearance	turbid blue liquid		SIR 10010
Styrene content	40	%	SIR 10352
Thixotropic index	> 3,0		
2 rpm	> 2300	mPa s	SIR 10215
20 rpm	< 800	mPa s	
Gel time at 25 °C ⁽¹⁾	30	minutes	SIR 10267
Exothermic peak	180	°C	SIR 10267
Stability at 65 °C	6	days	SIR 10242

(1) Formulation: 100 g resin + 1,50 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.

Mechanical properties of pure cured resin

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	100	MPa	EN 63
E-Module, flexion	3900	MPa	EN 63
Tensile strength	70	MPa	EN 61
E-Module, tension	3700	MPa	EN 61
Elongation at break	2,5	%	EN 61
HDT	65	°C	EN ISO 75 A

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

Property	Value	Unit	Method
Flexural strength	220	MPa	EN 63
E-Module, flexion	8700	MPa	EN 63
Tensile strength	110	MPa	EN 61
E-Module, tension	8000	MPa	EN 61

Supply Form

Product is available in a 225 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 peroxides. 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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