

SIRESTER[®] EC 0947/AT/E

PRODUCT DATA SHEET

RP/EC0947ATE/122011

Description

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

Applications

SIRESTER EC 0947/AT/E is a general purpose resin, where good mechanical properties are requested. The resin allows short demoulding times and contains an additive which appears on the surface reducing drastically the styrene emission. It is suggested to abrade the hardened surface before applying other layers.

Sales specification

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

Typical Properties

Property	Value	Unit	Method
Appearance	Turbid liquid		SIR 10010
Styrene content	40	%	SIR 10352
Thixotropic index	> 3,0		SIR 10215
2 rpm	>2000	mPa s	
20 rpm	< 700	mPa s	
Gel time at 25 °C ⁽¹⁾	27	minutes	SIR 10267
Stability at 65 °C	3	days	SIR 10242

(1) Formulation: 100g resin + 1.5ml 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	55		EN 59
Flexural strength	80	MPa	EN 63
E-Module, flexion	4600	MPa	EN 63
Tensile strength	60	MPa	EN 61
E-Module, tension	4100	MPa	EN 61
Elongation at break	1,8	%	EN 61
HDT	70	°C	EN ISO 75 A

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

Property	Value	Unit	Method
Flexural strength	210	MPa	EN 63
E-Module, flexion	8900	MPa	EN 63
Tensile strength	110	MPa	EN 61
E-Module, tension	9700	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 lined steel drums or in stainless steel tankers at 20 °C, away from sources of light and free of iron or 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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