

SIRESTER[®] FS 0994/AT/F

PRODUCT DATA
SHEET
RP/FS0994ATF/012019

Description

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

Applications

SIRESTER FS 0994/AT/F is a general purposes product, suitable in particular for hand lay-up and spray-up applications, with good wetting properties. Properly fabricated and postcured parts may be used for food contact applications according to UE n° 10/2011.

Sales specification

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

Typical Properties

Property	Value	Unit	Method
Appearance	Blue hazy		SIR 10010
Styrene content	41	%	SIR 10352
Gel time at 25 °C ⁽¹⁾	18	minutes	SIR 10284
Hardening time at 25 °C ⁽¹⁾	30	minutes	SIR 10284
Exothermic peak ⁽¹⁾	140	°C	SIR 10284
Thixotropic index	> 3,0		
2 rpm	> 2400	mPa s	SIR 10215
20 rpm	< 800	mPa s	
Stability at 65 °C	6	days	SIR 10242

(1) Formulation: 100 gr 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	40		EN 59
Flexural strength	105	MPa	EN 63
E-Module, flexion	3600	MPa	EN 63
Tensile strength	65	MPa	EN 61
E-Module, tension	3300	MPa	EN 61
Elongation at break	2,5	%	EN 61
HDT	65	°C	EN ISO 75 A

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

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

Property	Value	Unit	Method
Flexural strength	200	MPa	EN 63
E-Module, flexion	8100	MPa	EN 63
Tensile strength	100	MPa	EN 61
E-Module, tension	8200	MPa	EN 61

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

Supply Form

Product is available in a 225 Kg lined drum, 1000 Kg container or in bulk.

Storage stability

The product is stable for 4 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.

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.