

SIRESTER[®] FS 0993/AT/E

**PRODUCT DATA
SHEET**
RP/0993ATE/052021

Description

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

Applications

SIRESTER FS 0993/AT/E is a general purposes material, suitable for industrial applications; it provides efficient wetting capability and good mechanical properties.

Sales specification

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

Typical Properties

| Property | Value | Unit | Method |
|----------------------------------|-----------|--------|-----------|
| Appearance | Blue hazy | | SIR 10010 |
| Styrene content | 41 | % | SIR 10257 |
| Thixotropic index at 25 °C | > 3,0 | | |
| - 2 rpm | > 2400 | mPa s | SIR 10215 |
| - 20 rpm | < 850 | mPa s | |
| Gel time at 25 °C ⁽¹⁾ | 25 | minute | SIR 10267 |
| Stability at 65 °C | 6 | day | 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.

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Mechanical properties of pure cured resin (*)

| Property | Value | Unit | Method |
|---------------------|-------|------|-------------|
| Barcol hardness | 50 | | EN 59 |
| Flexural strength | 140 | MPa | ISO 178 |
| E-Module, flexion | 3800 | MPa | ISO 178 |
| Tensile strength | 80 | MPa | EN ISO 527 |
| E-Module, tension | 3800 | MPa | EN ISO 527 |
| Elongation at break | 2,5 | % | EN ISO 527 |
| HDT | 75 | °C | EN ISO 75 A |

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

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

| Property | Value | Unit | Method |
|-------------------|-------|------|------------|
| Flexural strength | 220 | MPa | ISO 14125 |
| E-Module, flexion | 8000 | MPa | ISO 14125 |
| Tensile strength | 110 | MPa | EN ISO 527 |
| E-Module, tension | 8200 | MPa | EN ISO 527 |

(*) 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 guidelines

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. Thixotropy properties are guaranteed for 3 months: a long period of storage can cause slight segregation of the solid part of the product. Stir the resin before use.

Safety

The product is flammable and harmful. Further information is provided in the relevant safety data sheet.

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