

SIRESTER[®] EC 0800/AT

PRODUCT DATA SHEET

RP/EC0800AT/122011

Description

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

Applications

SIRESTER EC 0800/AT is particularly suitable for general purposes, where high mechanical properties are requested; fulfill the requirements of DIN 1140.

This resin contains an additive which appears on the surface drastically reducing 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/g r | SIR 10231 |

Typical Properties

| Property | Value | Unit | Method |
|----------------------------------|---------------|---------|-----------|
| Appearance | Turbid liquid | | SIR 10010 |
| Styrene content | 43 | % | SIR 10352 |
| Gel time at 25 °C ⁽¹⁾ | 27 | minutes | SIR 10267 |
| Thixotropic index | > 3,0 | | |
| 2 rpm | > 2000 | mPa s | SIR 10215 |
| 20 rpm | < 650 | mPa s | |
| Stability at 65 °C | 3 | days | SIR 10242 |

(1) Formulation: 100g resin + 1.5ml 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 | 55 | | EN 59 |
| Flexural strength | 120 | MPa | EN 63 |
| E-Module, flexion | 4100 | MPa | EN 63 |
| Tensile strength | 70 | MPa | EN 61 |
| E-Module, tension | 3800 | MPa | EN 61 |
| Elongation at break | 3,5 | % | EN 61 |
| HDT | 105 | °C | EN ISO 75 A |

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

| Property | Value | Unit | Method |
|-------------------|-------|------|--------|
| Flexural strength | 220 | MPa | EN 63 |
| E-Module, flexion | 9500 | MPa | EN 63 |
| Tensile strength | 100 | MPa | EN 61 |
| E-Module, tension | 9000 | 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.

Safety

The product is flammable and harmful.

Further information is provided in the relevant safety data sheet.

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