

# SIRESTER<sup>®</sup> ISN 0841/AT/E

**PRODUCT DATA SHEET**  
RP/0841ATE/092019

## Description

Unsaturated isophthalic polyester resin, with medium-low reactivity and medium viscosity, thixotropic and pre-accelerated, with catalyst indicator.

## Applications

SIRESTER ISN 0841/AT/E is a general purpose material, particularly suitable in the ship-building and GFRP sectors.

## Sales specification

| Property    | Value | Unit     | Method    |
|-------------|-------|----------|-----------|
| Acid number | ≤ 18  | mg KOH/g | SIR 10231 |

## Typical Properties

| Property                         | Value              | Unit    | Method    |
|----------------------------------|--------------------|---------|-----------|
| Appearance                       | Turbid blue liquid |         | SIR 10010 |
| Styrene content                  | 44                 | %       | SIR 10352 |
| Thixotropic index                | > 2,8              |         |           |
| - 2 rpm                          | > 1500             | mPa s   | SIR 10215 |
| - 20 rpm                         | < 600              | mPa s   |           |
| Gel time at 25 °C <sup>(1)</sup> | 25                 | minutes | SIR 10267 |
| Hardening time                   | 45                 | minutes | SIR 10267 |
| Exothermic peak                  | 185                | °C      | SIR 10267 |
| Stability at 65 °C               | 6                  | months  | 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.

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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   | 125   | MPa  | EN 63       |
| E-Module, flexion   | 4200  | MPa  | EN 63       |
| Tensile strength    | 75    | MPa  | EN 61       |
| E-Module, tension   | 4000  | MPa  | EN 61       |
| Elongation at break | 3,0   | %    | EN 61       |
| HDT                 | 85    | °C   | EN ISO 75 A |

## Mechanical properties of glassfibre reinforced resin (glass/resin 30/70)

| Property          | Value | Unit | Method |
|-------------------|-------|------|--------|
| Flexural strength | 210   | MPa  | EN 63  |
| E-Module, flexion | 9100  | MPa  | EN 63  |
| Tensile strength  | 110   | MPa  | EN 61  |
| E-Module, tension | 9200  | 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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