

SIRESTER[®] IS 4245/M

PRODUCT DATA
SHEET
RP/4245M/072013

Description

Unsaturated, isophthalic, polyester resin, diluted in styrene, with high reactivity and low viscosity, thixotropic and preaccelerated.

Applications

SIRESTER IS 4245/M is particularly suitable for the production of large reinforced plastic parts requiring high mechanical and chemical resistance properties; suitable for food contact applications.

Sales specification

| Property | Value | Unit | Method |
|-------------|-------|----------|-----------|
| Acid number | ≤ 20 | mg KOH/g | SIR 10231 |

Typical Properties

| Property | Value | Unit | Method |
|----------------------------------|------------------|---------|-----------|
| Appearance | Hazy rose liquid | | SIR 10010 |
| Styrene content | 45 | % | SIR 10352 |
| Stability at 65 °C | 6 | days | SIR 10242 |
| Thixotropic Index at 25 °C | > 2,5 | | |
| - 2 rpm | > 1500 | mPa s | SIR 10215 |
| - 20 rpm | < 650 | mPa s | |
| Gel time at 25 °C ⁽¹⁾ | 17 | minutes | SIR 10267 |
| SPI | 11 | minutes | |
| peak temperature | 220 | °C | SIR 10232 |
| time to peak | 13 | minutes | |

(1) Formulation: 100 g resin + 1,5 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 |
|---------------------|-------|------|-------------|
| Flexural strength | 100 | MPa | EN 63 |
| E-Module, flexion | 4000 | MPa | EN 63 |
| Tensile strength | 55 | MPa | EN 61 |
| E-Module, tension | 3800 | MPa | EN 61 |
| Elongation at break | 2,0 | % | EN 61 |
| HDT | 100 | °C | EN ISO 75 A |

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

| Property | Value | Unit | Method |
|-------------------|-------|------|--------|
| Flexural strength | 220 | MPa | EN 63 |
| E-Module, flexion | 9100 | MPa | EN 63 |
| Tensile strength | 110 | MPa | EN 61 |
| E-Module, tension | 8900 | 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 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.

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