

# SIRESTER<sup>®</sup> IS 0785

## PRODUCT DATA SHEET

RP/0785/112011

### Description

Iso-Neo unsaturated polyester resin, diluted in styrene, with medium reactivity and medium viscosity.

### Applications

SIRESTER IS 0785 is particularly suitable for piping and tank production with filament winding technology. This material provides excellent mechanical properties and high chemical resistance.

### Sales specification

Property	Value	Unit	Method
Acid number	≤ 15	mg KOH/g	SIR 10231
Viscosity at 25 °C	700 – 900	mPa s	SIR 10017

### Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Gel time at 25 °C <sup>(1)</sup>	28	minute	SIR 10340
Exothermic peak	180	°C	SIR 10340
Styrene content	37	%	SIR 10352
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100g resin + 0.25 ml Co (Oct) 6% + 1.3 ml MEKP 50%

SIRESTER<sup>®</sup>: 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	120	MPa	EN 63
E-Module, flexion	4100	MPa	EN 63
Tensile strength	75	MPa	EN 61
E-Module, tension	3700	MPa	EN 61
Elongation at break	3,0	%	EN 61
HDT	105	°C	EN ISO 75 A

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

Property	Value	Unit	Method
Flexural strength	210	MPa	EN 63
E-Module, flexion	8000	MPa	EN 63
Tensile strength	100	MPa	EN 61
E-Module, tension	8300	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 6 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.

### Safety

The product is flammable and harmful.

Further information is provided in the relevant safety data sheet.

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