

**Description**

Isophthalic unsaturated polyester resin, diluted in styrene, with medium viscosity and high reactivity.

**Applications**

SIRESTER ISN 0841/C is a general purpose material, suitable in particular for gelcoat and nautical applications: it provides superior wetting properties, quick hardening cycles and high mechanical strengths.

**Sales specification**

Property	Value	Unit	Method
Acid number	≤ 18	mg KOH/ g	SIR 10231
Viscosity at 25°C	500 - 550	mPa s	SIR 10017

**Typical Properties**

Property	Value	Unit	Method
Appearance	Clear	-	SIR 10010
Hazen colour	< 150	Hazen	SIR 10007
Monomer content	36	%	SIR 10257
Gel time at 25 °C <sup>(1)</sup>	8	minutes	SIR 10487
Time to peak	17	minutes	SIR 10487
Exothermic peak	195	°C	SIR 10487
Stability at 65°C	6	days	SIR 10242

(1) Formulation: 100 gr resin + 0,30 ml Co (Oct) 6% + 2,00 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.

**Mechanical properties of pure cured resin (\*)**

<b>Property</b>	<b>Value</b>	<b>Unit</b>	<b>Method</b>
Barcol hardness	45		EN 59
Flexural strength	130	MPa	ISO 178
E-Module, flexion	4100	MPa	ISO 178
Tensile strength	80	MPa	EN ISO 527
E-Module, tension	3900	MPa	EN ISO 527
Elongation at break	3,0	%	EN ISO 527
HDT	85	°C	EN ISO 75 A

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

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

<b>Property</b>	<b>Value</b>	<b>Unit</b>	<b>Method</b>
Flexural strength	250	MPa	ISO 14125
E-Module, flexion	9000	MPa	ISO 14125
Tensile strength	120	MPa	EN ISO 527
E-Module, tension	8800	MPa	EN ISO 527

(\*) typical properties, not suitable for specifications; 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 stability**

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.

**Safety**

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

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.