SIRESTER® IS 0821

PRODUCT DATA SHEET

RP/IS0821/072021

Description

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

Applications

SIRESTER IS 0821 is a general-purpose material, suitable in particular for the production of gelcoat in nautical applications: it provides good 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	1200 - 1400	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear	-	SIR 10010
Hazen colour	≤ 120	Hazen	SIR 10007
Monomer content	36	%	SIR 10257
Gel time at 25 °C (1)	10	minutes	SIR 10324
Time to peak	20	minutes	SIR 10324
Exothermic peak	195	°C	SIR 10324
Stability at 65 °C	6	days	SIR 10242

⁽¹⁾ Formulation: 100 gr resin + 0,20 ml Co (Oct) 6% + 2,00 ml 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.

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Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	40		EN 59
Flexural strength	130	MPa	ISO 178
E-Module, flexion	3900	MPa	ISO 178
Tensile strength	70	MPa	EN ISO 527
E-Module, tension	3800	MPa	EN ISO 527
Elongation at break	2,5	%	EN ISO 527
HDT	70	°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)(*)

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Property	Value	Unit	Method
Flexural strength	240	MPa	ISO 14125
E-Module, flexion	8800	MPa	ISO 14125
Tensile strength	110	MPa	EN ISO 527
E-Module, tension	8700	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.

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