

Description

Isophthalic-NPG unsaturated polyester resin, diluted in styrene, with high reactivity and medium viscosity. The resin is UV stabilized.

Applications

SIRESTER ISG 0839 is suitable where high chemical and weathering resistance are needed. Its formulation and very good mechanical properties allow it to be used in fibre reinforced plastics and gel coats production.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 18	mg KOH/g	SIR 10231
Viscosity at 25 °C	450 – 550	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Gel time at 25 °C ⁽¹⁾	7	minutes	SIR 10234
Styrene content	40	%	SIR 10352
Apha colour	< 100		SIR 10007
Stability at 65 °C	6	days	SIR 10242

(1) Formulation: 100 g resin + 0.2 ml Co (Oct) 6% + 1.5 ml MEKP

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.

Mechanical properties of pure cured resin

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	130	MPa	EN 63
E-Module, flexion	4000	MPa	EN 63
Tensile strength	75	MPa	EN 61
E-Module, tension	3600	MPa	EN 61
Elongation at break	3,0	%	EN 61
HDT	100	°C	EN ISO 75 A

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

Property	Value	Unit	Method
Flexural strength	200	MPa	EN 63
E-Module, flexion	8300	MPa	EN 63
Tensile strength	85	MPa	EN 61
E-Module, tension	8500	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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