

SIRESTER[®] ISG 0839/MMA

PRODUCT DATA
SHEET
RP/0839MMA/022017

Description

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

Applications

SIRESTER ISG 0839/MMA is particularly suitable for solid surface applications, where high chemical and weathering resistance are requested.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 16	mg KOH/g	SIR 10231
Viscosity at 25 °C	1100 – 1250	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear to hazy liquid		SIR 10010
Colour	Rose		SIR 10007
Monomer content	30 - 33	%	SIR 10352
Gel time at 25 °C ⁽¹⁾	8' 30" – 11' 00"	minutes	SIR 10234
Curing time	17 - 23	minutes	SIR 10234
Exothermic peak	190 - 210	°C	SR 10234
Stability at 65 °C	6	days	SIR 10242

(1) Formulation: 100 g resin + 1,50 ml MEKP

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.

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	2	%	EN 61
HDT	93	°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	8400	MPa	EN 63
Tensile strength	100	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: prevent from exposition to sunlight. 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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