

# SIRESTER<sup>®</sup> IS 0976/V

## PRODUCT DATA SHEET

RP/0976V/102014

### Description

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

### Applications

SIRESTER IS 0976/V is suitable where high chemical and weathering resistance are needed. Its formulation and very good mechanical properties allow it to be used in many applications, in particular for filament winding.

### Sales specification

Property	Value	Unit	Method
Acid number	≤ 15	mg KOH/g	SIR 10231
Viscosity at 25 °C	500 - 700	mPa s	SIR 10017

### Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid	-	SIR 10010
Colour	< 100	Hazen	SIR 10007
Gel time at 25 °C <sup>(1)</sup>	33	minutes	SIR 10230
Gel to peak time	12	minutes	SIR 10230
Exothermic peak	180	°C	SIR 10230
Styrene content	41	%	SIR 10352
Stability at 65 °C	6	days	SIR 10242

(1) Formulation: 100 g resin + 0.20 ml Co (Oct) 6% + 1.50 ml MEKP

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

Property	Value	Unit	Method
Barcol hardness	30		EN 59
Flexural strength	115	MPa	EN 63
E-Module, flexion	3200	MPa	EN 63
Tensile strength	65	MPa	EN 61
E-Module, tension	3000	MPa	EN 61
Elongation at break	5,0	%	EN 61
HDT	80	°C	EN ISO 75 A

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

Property	Value	Unit	Method
Flexural strength	180	MPa	EN 63
E-Module, flexion	7800	MPa	EN 63
Tensile strength	100	MPa	EN 61
E-Module, tension	7900	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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