

SIRESTER[®] ISG 0818/L

PRODUCT DATA
SHEET
RP/0818L/122011

Description

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

Applications

SIRESTER ISG 0818/L is suitable in fibre reinforced plastics and particularly for gel coats production.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 15	mg KOH/g	SIR 10231
Viscosity at 25 °C	700 – 800	mPa s	SIR 10017

Typical Properties

Property	Value	Unit	Method
Appearance	Clear/hazy liquid		SIR 10010
Gel time at 25 °C ⁽¹⁾	17	minutes	SIR 10234
Styrene content	37	%	SIR 10352
Apha colour	< 80		SIR 10007
SPI	8	minutes	
Peak time	11	minutes	SIR 10232
Exothermic Peak	210	°C	
Stability at 65 °C	6	days	SIR 10242

(1) Formulation: 100 g resin + 0.3 ml Co (Oct) 6% + 1.0 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	55		EN 59
Flexural strength	110	MPa	EN 63
E-Module, flexion	4200	MPa	EN 63
Tensile strength	70	MPa	EN 61
E-Module, tension	3800	MPa	EN 61
Elongation at break	2,0	%	EN 61
HDT	95	°C	EN ISO 75 A

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

Property	Value	Unit	Method
Flexural strength	240	MPa	EN 63
E-Module, flexion	9400	MPa	EN 63
Tensile strength	100	MPa	EN 61
E-Module, tension	8600	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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