

# SIRESTER<sup>®</sup> FS 4235

**PRODUCT DATA  
SHEET**  
RP/4235/052021

## Description

Unsaturated orthophthalic polyester resin, diluted in styrene, with medium reactivity and medium viscosity.

## Applications

SIRESTER FS 4235 is a general purpose resin, suitable in particular for filament winding and centrifugal casting applications: it provides efficient wetting properties and high mechanical strengths.

## Sales specification

Property	Value	Unit	Method
Acid number	≤ 30	mg KOH/gr	SIR 10231
Viscosity at 25 °C	400 - 450	mPa s	SIR 10015

## Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Apha colour	< 100	Sc. Co/Pt	SIR 10007
Styrene content	38	%	SIR 10257
Gel time at 25 °C <sup>(1)</sup>	13	minute	SIR 10234
Gel to peak time	10	minute	SIR 10234
Exothermic peak	180	°C	SIR 10234
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co(Oct) 6% + 1,50 ml MEKP-50.

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	45	Barcol	EN 59
Flexural strength	130	MPa	ISO 178
E-Module, flexion	4100	MPa	ISO 178
Tensile strength	70	MPa	EN ISO 527
E-Module, tension	3700	MPa	EN ISO 527
Elongation at break	2,8	%	EN ISO 527
HDT	80	°C	EN ISO 75 A

(\*) Typical properties, not suitable for specification; postcuring cycle: 24 hours 25 °C + 2 hours 100 °C

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

Property	Value	Unit	Method
Flexural strength	240	MPa	ISO 14125
E-Module, flexion	8300	MPa	ISO 14125
Tensile strength	110	MPa	EN ISO 527
E-Module, tension	8400	MPa	EN ISO 527

(\*) Typical properties, not suitable for specification; 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 guidelines

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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