

SIRESTER[®] FS 0831

**PRODUCT
DATA SHEET**
RP/0831/052021

Description

Orthophthalic unsaturated polyester resin, diluted in styrene, with slow reactivity and medium viscosity. The resin is UV stabilized and contains a LSE system.

Applications

SIRESTER FS 0831 is particularly suitable for continuous laminates (flat and corrugated sheets) and panels production: it provides superior wetting properties and good mechanical strengths.

Sales specification

Property	Value	Unit	Method
Acid number	< 40	mg KOH/gr	SIR 10231
Viscosity at 25 °C	500 - 600	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear to hazy	-	SIR 10010
Apha colour	< 70	Sc. Pt/Co	SIR 10007
Styrene content	35	%	SIR 10257
Gel time at 60 °C ⁽¹⁾	12	minute	SIR 10290
Gel to peak time	10	minute	SIR 10290
Exothermic peak	165	°C	SIR 10290
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 Co (Octoate) 6% + 1,20 ml MIKP.

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	100	MPa	ISO 178
E-Module, flexion	4500	MPa	ISO 178
Tensile strength	65	MPa	EN ISO 527
E-Module, tension	4100	MPa	EN ISO 527
Elongation at break	2,0	%	EN ISO 527
HDT	65	°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	180	MPa	ISO 14125
E-Module, flexion	8200	MPa	ISO 14125
Tensile strength	90	MPa	EN ISO 527
E-Module, tension	8000	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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SIRESTER[®] FS 0908/B

**PRODUCT DATA
SHEET**
RP/0908B/052021

Description

Unsaturated orthophthalic polyester resin, diluted in styrene, with medium reactivity and low viscosity. The product is UV stabilized.

Applications

SIRESTER FS 0908/B is particularly suitable for continuous laminates (flat and corrugated sheets), where high production rate is requested: it provides good wetting properties and high mechanical strengths.

Sales specification

Property	Value	Unit	Method
Acid number	< 30	mg KOH/gr	SIR 10231
Viscosity at 25 °C	250 – 350	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Colour Hazen	< 100	Sc. Pt/Co	SIR 10007
Styrene content	38	%	SIR 10257
Gel time at 25 °C ⁽¹⁾	18	minute	SIR 10482
Gel to peak time	7	minute	SIR 10482
Exothermic Peak	190	°C	SIR 10482
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (Octoate) 6% + 1,50 ml AAP.

SIRESTER[®]: marchio registrato SIR INDUSTRIALE.

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Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	40		EN 59
Flexural strength	140	MPa	ISO 178
E-Module, flexion	4000	MPa	ISO 178
Tensile strength	75	MPa	EN ISO 527
E-Module, tension	3500	MPa	EN ISO 527
Elongation at break	3,0	%	EN ISO 527
HDT	75	°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	200	MPa	ISO 14125
E-Module, flexion	7900	MPa	ISO 14125
Tensile strength	100	MPa	EN ISO 527
E-Module, tension	7800	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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SIRESTER[®] FS 0908/BR

PRODUCT DATA SHEET
RP/0908BR/052021

Description

Unsaturated orthophthalic polyester resin, diluted in styrene, with medium reactivity and low viscosity. The product is UV stabilized.

Applications

SIRESTER FS 0908/BR is particularly suitable for continuous laminates (flat and corrugated sheets), where high production rate is required: it provides good wetting properties and high mechanical strengths.

Sales specification

Property	Value	Unit	Method
Acid number	< 30	mg KOH/gr	SIR 10231
Viscosity at 25 °C	180 – 230	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Colour Hazen	≤ 70	Sc. Pt/Co	SIR 10007
Styrene content	39	%	SIR 10257
Gel time at 25 °C ⁽¹⁾	4	minute	SIR 10482
Gel to peak time	4	minute	SIR 10482
Exothermic Peak	210	°C	SIR 10482
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (Octoate) 6% + 1,50 ml AAP.

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Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	40		EN 59
Flexural strength	140	MPa	ISO 178
E-Module, flexion	4000	MPa	ISO 178
Tensile strength	75	MPa	EN ISO 527
E-Module, tension	3500	MPa	EN ISO 527
Elongation at break	3,0	%	EN ISO 527
HDT	75	°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	200	MPa	ISO 14125
E-Module, flexion	7900	MPa	ISO 14125
Tensile strength	100	MPa	EN ISO 527
E-Module, tension	7800	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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SIRESTER[®] FS 0910/B

**PRODUCT
DATA SHEET**
RP/0910B/052021

Description

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

Applications

SIRESTER FS 0910/B is particularly suitable for continuous laminates (flat and corrugated sheets), where high production rate is required.

Sales specification

Property	Value	Unit	Method
Acid number	< 30	mg KOH/gr	SIR 10231
Viscosity at 25 °C	450 - 550	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid	-	SIR 10010
Apha colour	< 70	Sc. Pt/Co	SIR 10007
Styrene content	36	%	SIR 10257
Gel time at 20 °C ⁽¹⁾	6	minute	SIR 10293
SPI gel test	5	minute	
Peak time	8	minute	SIR 10232
Exothermic peak	200	°C	
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,10 ml Co (Octoate) 6% + 1,50 ml MEKP-50.

SIRESTER[®]: SIR INDUSTRIALE registered trade mark.

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SIRESTER[®] FS 0910/B

**PRODUCT
DATA SHEET**
RP/0910B/052021

Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	130	MPa	ISO 178
E-Module, flexion	4100	MPa	ISO 178
Tensile strength	65	MPa	EN ISO 527
E-Module, tension	3800	MPa	EN ISO 527
Elongation at break	2,5	%	EN ISO 527
HDT	90	°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	210	MPa	ISO 14125
E-Module, flexion	8400	MPa	ISO 14125
Tensile strength	100	MPa	EN ISO 527
E-Module, tension	8300	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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SIRESTER[®] FS 0912

**PRODUCT
DATA SHEET**
RP/0912/052021

Description

Unsaturated orthophthalic polyester resin, diluted in styrene, with fast reactivity and low viscosity; the material contains a UV stabilizer.

Applications

SIRESTER FS 0912 is particularly suitable for continuous laminates (flat and corrugated sheets), where high production rate is required.

Sales specification

Property	Value	Unit	Method
Acid number	< 30	mg KOH/gr	SIR 10231
Viscosity at 25 °C	180 – 230	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Apha colour	< 70	Sc. Pt/Co	SIR 10007
Styrene content	39	%	SIR 10257
Gel time at 25 °C ⁽¹⁾	4	minute	SIR 10482
Gel to peak time	3' 45"	minute	SIR 10482
Exothermic peak	210	°C	SIR 10482
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (Octoate) 6% + 1,50 ml AAP.

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Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	120	MPa	ISO 178
E-Module, flexion	4200	MPa	ISO 178
Tensile strength	75	MPa	EN ISO 527
E-Module, tension	3700	MPa	EN ISO 527
Elongation at break	3,0	%	EN ISO 527
HDT	85	°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	200	MPa	ISO 14125
E-Module, flexion	8200	MPa	ISO 14125
Tensile strength	110	MPa	EN ISO 527
E-Module, tension	8300	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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SIRESTER[®] FS 0924

**PRODUCT
DATA SHEET**
RP/0924/052021

Description

Unsaturated orthophthalic polyester resin based on neopentylglycol, diluted in styrene, with fast reactivity and low viscosity; the material contains a UV stabilizer.

Applications

SIRESTER FS 0924 is particularly suitable for continuous laminates (flat and corrugated sheets), where high production rate is required: it provides higher chemical and UV resistance in respect to a standard orthophthalic material, along with very good mechanical strengths.

Sales specification

Property	Value	Unit	Method
Acid number	< 30	mg KOH/gr	SIR 10231
Viscosity at 25 °C	180 – 230	mPa s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	Clear liquid		SIR 10010
Apha colour	< 70	Sc. Co/Pt	SIR 10007
Styrene content	38	%	SIR 10257
Gel time at 25 °C ⁽¹⁾	4	minute	SIR 10482
Gel to peak time	3' 45"	minute	SIR 10482
Exothermic peak	210	°C	SIR 10482
Stability at 65 °C	6	day	SIR 10242

(1) Formulation: 100 gr resin + 0,20 ml Co (Octoate) 6% + 1,50 ml AAP.

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Mechanical properties of pure cured resin (*)

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	130	MPa	ISO 178
E-Module, flexion	4100	MPa	ISO 178
Tensile strength	75	MPa	EN ISO 527
E-Module, tension	3800	MPa	EN ISO 527
Elongation at break	3,0	%	EN ISO 527
HDT	90	°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	200	MPa	ISO 14125
E-Module, flexion	8400	MPa	ISO 14125
Tensile strength	110	MPa	EN ISO 527
E-Module, tension	8600	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

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