

# SIRESTER<sup>®</sup> EC 0831/ATR

## PROVISIONAL DATA SHEET

RP/EC0831ATR/102019

### Description

Unsaturated orthophthalic polyester resin, diluted in styrene, with medium-fast reactivity and low viscosity, thixotropic and preaccelerated with catalyst indicator.

### Applications

SIRESTER EC 0831/ATR is a general purpose resin, with good wetting properties, suitable in particular for HLU/SU applications; it contains an additive which appears on the surface reducing drastically the styrene emission: it is suggested to abrade the hardened surface before applying other layers. Thick laminates can be also produced in one go thanks to the low exothermic peak.

### Sales specification

Property	Value	Unit	Method
Acid number	≤ 30	mg KOH/gr	SIR 10231

### Typical Properties

Property	Value	Unit	Method
Appearance	Turbid blue liquid		SIR 10010
Styrene content	42	%	SIR 10352
Thixotropic index	> 3,0		
2 rpm	>1500	mPa s	SIR 10215
20 rpm	< 500	mPa s	
Gel time at 25 °C <sup>(1)</sup>	15	minutes	SIR 10276
Hardening time	25	minutes	SIR 10276
Exothermic peak	130	°C	SIR 10276
Stability at 65 °C	3	days	SIR 10242

(1) Formulation: 100 gr. resin + 2,00 ml MEKP-50

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<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.

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## Mechanical properties of pure cured resin (\*)

Property	Value	Unit	Method
Barcol hardness	40		EN 59
Flexural strength	110	MPa	EN 63
E-Module, flexion	4000	MPa	EN 63
Tensile strength	70	MPa	EN 61
E-Module, tension	3800	MPa	EN 61
Elongation at break	2,0	%	EN 61
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 glass fiber reinforced resin (glass/resin 30/70) (\*)

Property	Value	Unit	Method
Flexural strength	210	MPa	EN 63
E-Module, flexion	8200	MPa	EN 63
Tensile strength	100	MPa	EN 61
E-Module, tension	8100	MPa	EN 61

(\*) 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 stability

The product is stable for 3 months if stored in lined steel drums or in stainless steel tankers at 20 °C, away from sources of light and free of iron or copper salts, organic and inorganic peroxides. A long period of storage can cause slight segregation of the solid part of the product: stirring the material before using is strictly suggested.

## Safety

The product is flammable and harmful.

Further information is provided in the relevant safety data sheet.

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