

SIRESTER[®] FS 0940/RD

PRODUCT DATA SHEET

RP/0940RD/122011

Description

Unsaturated orthophthalic polyester based resin, diluted in styrene, with high reactivity and low viscosity. The resin contains a demoulding additive.

Applications

SIRESTER FS 0940/RD is particularly suitable for RTM manufacturing technology.

Sales specification

Property	Value	Unit	Method
Acid number	≤ 27	mg KOH/gr	SIR 10231
Viscosity at 25 °C	150 - 250	mPa.s	SIR 10015

Typical Properties

Property	Value	Unit	Method
Appearance	clear liquid		SIR 10010
Styrene content	38	%	SIR 10352
Stability at 65 °C	6	Days	SIR 10242
Gel time at 25 °C ⁽¹⁾	10	Minutes	SIR 10234
SPI	5	minutes	SIR 12032
peak temperature	205	°C	SIR 10234
time to peak	7	minutes	SIR 10234

(1) Formulation: 100 g resin + 0,2 ml Co (Ott) 6% + 1,5 ml MEKP 50 %

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	130	MPa	EN 63
E-Module, flexion	3800	MPa	EN 63
Tensile strength	80	MPa	EN 61
E-Module, tension	3600	MPa	EN 61
Elongation at break	3,0	%	EN 61
HDT	75	°C	EN ISO 75 A

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

Property	Value	Unit	Method
Flexural strength	220	MPa	EN 63
E-Module, flexion	9000	MPa	EN 63
Tensile strength	120	MPa	EN 61
E-Module, tension	9600	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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