



RUSTIN RESIN

PRODUCT DATA SHEET

RS-2500- ISOPHTHALIC LAMINATING RESING

Applications:

This resin is specially designed for chemical resistance applications. It is suitable for manufacturing chemical process equipment's, pipes, storage tanks, tank linings, and ducting, fume hoods, cooling towers, effluent treatment plants etc.

Properties:

Medium viscosity and low reactivity.

Show superior chemical resistance towards mild to medium concentrations of mineral acids at moderate temperature.

The mechanical and chemical resistance of this resin is better than other Isophthalates and orthophthalates.

Composition of the Resin:

RS-2500 is an unsaturated Polyester laminating resin having medium viscosity and low reactivity based on Isophthalic acid and standard glycols, dissolved in styrene monomer. It is specially designed for chemical resistance applications. **RS-2500** rapidly wets the surface of glass fiber in the form of cloth, roving and emulsion and powder bonded mats.

Compatibility:

Avoid storing the resin along with Metallic Driers, Peroxides and catalyst in the same area.

Safety:

Material Safety Datasheets of the product is available on demand.

Product Data:

PARAMETERS	UNIT	SPECIFICATION
appearances		Clear Transparent liquid
Color		≤1
Viscosity Brookfield, @25°C LV#2,30RPM	Cps	600 ± 50
Acid Value	Mg.KOH/gm	15 ± 3
Specific Gravity @25°C	Gm/ml	1.11±0.02
Volatile content	%	38±3
Gel Time @25°C	Min	13-18
Peak Temperature	°C	190

☐ Gel Time with 1.0ml Cobalt Octate (Metal content 3%) and 1.5ml MEKP (Active Oxygen 9 ± 0.2)

Storage Conditions:

RS-2500 should be stored in a cool and dry place away from sunlight and other sources of heat, preferably below 25°C. At higher storage temperatures, the shelf life decreases sharply. Presence of moisture also affects the storage life of the resin leads to turbidity in the resin.

Stability:

On storage under above mentioned conditions, the stability for **RS-2500** is guaranteed for 3 months

Supply Modes:

Resin is supplied in 200 kg Steel Drums.

Food and Drug:

All resins in this datasheet are manufactured from raw materials that are listed in FDA regulation Title 21 CFR 177.2420.

Mechanical Properties of Clear Cured Castings:

PROPERTIES	TEST VALUE	METHOD
Barcol Hardness	50	ASTM D 2583
Tensile Strength (MPa)	65	ISO 527-2
Flexural Strength (MPa)	110	ISO 178
Elongation at Break (%)	2.3	ISO 527-2
Heat Distortion Temperature (°C)	100	ISO 75-2
Water Absorption @25°C(after 24 Hrs.) mg	15	ISO 62

Curing Conditions:

The specimens for testing of mechanical properties are prepared by curing the resins with 0.5 ml Accelerator (3% cobalt content) and 1.0 % MEKP catalyst, added to 100 gm. of resin. The specimens are cured for 24 hours at room temperature followed by post curing for 4 hours at 80°C.

Disclaimer: Although the facts and suggestions in this data sheet are based on our own research and are believed to be reliable, we cannot assume any responsibility for performance or results obtained through the use of our product described herein in view of the many factors that may affect processing and application.

RUSTIN RESIN does not guarantee duplication of such results by third parties.

Method of Testing:

The method of testing and the tolerances are as prescribed in ISO, ASTM and BS where is not available.

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**** Gel time, Acid value and viscosity can be adjusted as per customer requirements.**