



RUSTIN RESIN

PRODUCT DATA SHEET

RS-2510- ISOPHTHALIC STRUCTURAL RESIN

Applications:

This resin is specially designed for structural applications
It is suitable for chemical processing equipment and cooling tower

Properties:

Medium viscosity and medium reactivity.
Superior thermal resistance and mechanical strength.

Composition of the Resin:

RS-2510 is an unsaturated Polyester laminating resin having medium viscosity and medium reactivity based on Isophthalic acid and standard glycols, dissolved in styrene monomer. It is specially designed for structural applications. Suitable for chemical processing equipment and cooling towers

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 | 16 ± 3 |
| Specific Gravity @25°C | Gm/ml | 1.11±0.02 |
| Volatile content | % | 38±3 % |
| Gel Time @25°C | Min | 13-18 min |
| 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-2510 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-2510** 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) | 60 | ISO 527-2 |
| Flexural Strength (MPa) | 120 | ISO 178 |
| Elongation at Break (%) | 2.3 | ISO 527-2 |
| Heat Distortion Temperature (°C) | 110 | ISO 75-2 |
| Water Absorption @25°C(after 24 Hrs.) mg | 20 | 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.**