



CREST COMPOSITES & PLASTICS PVT. LTD.

C'POL- 301M

revision: 02

Product Data Sheet dated 22/10/2013

● **Product Description:**

C'POL - 301M is a medium viscosity Unsaturated Polyester Resin based on Isophthalic Acid, useful for fabrication of a wide range of FRP structures by hand lay-up, filament winding and other conventional fabricating techniques. Laminates made with C'POL 301 M possess excellent resistance to water and corrosive chemicals such as dilute acids and salt solutions.

● **Salient Features :**

C'POL - 301M is designed to give optimum combination of performances and economy. C'POL 301 M has been successfully use for the fabrication of corrosion resistance structure.

● **Physical Properties Of Liquid Resins:**

- Colour & Appearance : Hazy Light Greenish to Yellow Liquid.
- Viscosity @ 25°C. (cps.) : 350 - 450
- Acid Value (mgs.KOH/g.) : 14 - 20
- Specific Gravity @ 25°C. : 1.10 - 1.12
- Monomer content (wt.%) : 38 - 42
- Geltime @ 25°C. (mts.) : 14 - 20

(with 1% Accelerator A
and 1.5% Catalyst C)

Accelerator A - 3% Solution of cobalt as cobalt octoate.

Catalyst C - 50% solution of MEKP (9% Active Oxygen) (Akzonobel Butonox M-50)

> Use of other MEKP Catalysts or additives may result in different geltimes.

Catalyst should be never brought in direct contact with accelerator. Explosion is possible.

Note: Properties are tested in accordance with methods described in IS 6746 1994.



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● Mechanical Properties Of Cast Resin

(Cured for 24 hrs. at room temperature followed by for 4 hrs. at 100 deg. C)

| | |
|--|--------|
| □ Tensile Strength (Kgs./cm. ²) | : 550 |
| □ Elongation at break (%) | : 2 |
| □ Flexural Strength (Kgs./cm. ²) | : 1050 |
| □ Heat Distortion Temperature (°) | : 103 |
| □ Barcol hardness | : 40 |
| □ Volume Shrinkage (%) | : 8 |

❖ Caution

C'POL - 301 M is a material of limited shelf life. Storage at 15-20 Deg.C and low humidity in securely closed containers is recommended. Exposure of container to direct sunlight should be avoided at all costs. The material should be consumed as soon as it is received, especially when proper storage facility does not exist. Material is guaranteed for a shelf life of 3 months from manufacturing date when stored at suggested conditions. Storage at higher temperatures will adversely affect shelf life.

Our Other Chemical Resistant Resins:

- C'POL - 261 - PTA based Mechanical grade resin
- C'POL - 231 - PTA based Chemical resi. grade resin.
- C'POL - 601 - Bisphenol Resin.
- C'POL - 701 - Vinyl Ester Resin.
- C'POL - 731 - Superior Vinyl Ester Resin.

Gel coats of above resins also can be made available.

Note.

All the above information is based on the results of tests carried out at our laboratories to the best of our ability. The figures are intended to give a general indication of the characteristics of the product. No liability must be assumed or implied as a result of the data given.

For trade enquiries please call on:

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