



CREST COMPOSITES & PLASTICS PVT. LTD.

Product Data

C'POL-301

Product Data Sheet dated 22/10/2013

revision: 02

❖ Product Description :

C'POL - 301 is a premium grade Iso Polyester Resin recommended for the fabrication of a wide range of FRP structures for Chemical Industry. Structures made with C'POL - 301 possess excellent resistance to water and host of corrosive chemicals such as dilute acids and salt solutions.

❖ Salient Features:

C'POL - 301 is made by a two stage azeotropic process using 100% Propylene Glycol and a U/S ratio of 1.0. It is comparable in performance with the best available Iso Polyester resins available in the market.

❖ Physical Properties Of Liquid Resins:

□ Colour & Appearance	: Clear Yellow Liquid
□ Viscosity @ 25°C. (cps.)	: 500 - 600
□ Acid Value (mgs. KOH / g.)	: 12 - 18
□ Specific Gravity @ 25°C.	: 1.10 - 1.12
□ Monomer content (wt.%)	: 36 - 40
□ Geltime @ 25°C. (mts.)	: 14 - 20
(with 1% Accelerator A. and 1.5 % Catalyst C.)	

Accelerator A. - Solution of 1% 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 ° C)

<input type="checkbox"/> Tensile Strength (Kgs./cm. ²)	: 600
<input type="checkbox"/> Elongation at break (%)	: 2
<input type="checkbox"/> Flexural Strength (Kgs./cm. ²)	: 1050
<input type="checkbox"/> Heat Distortion Temperature (°C)	: 98
<input type="checkbox"/> Barcol hardness	: 40
<input type="checkbox"/> Volume Shrinkage (%)	: 8.5

❖ **Caution**

C'POL-301 is a material of limited shelf life. Storage at 15-20 °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 201 - Medium Reactivity Terephthalate Resin..

C'POL - 231 - Low Cost Terephthalate Resin

C'POL - 301 - Premium Isophthalic Resin.

C'POL - 601 - Bisphenol Resin.

C'POL 701 - General Purpose 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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