



# CREST COMPOSITES & PLASTICS PVT. LTD.

*Product Data*

## C'POL-331

Product Data Sheet dated 22/10/2013

revision: 02

### ❖ Product Description :

**C'POL 331** is a medium reactivity Unsaturated Polyester Resin based on Isophthalic Acid useful for the fabrication of a wide range of FRP structures for Chemical Industry. Structures made with C'POL - 331 possess excellent resistance to water and host of corrosive chemicals such as dilute acids and salt solutions.

### ❖ Salient Features:

C'POL-331 is designed to give an optimum combination of performance and economy. The resin has been successfully used for the fabrication of many corrosion resistant structures.

### ❖ Physical Properties Of Liquid Resins:

- Colour & Appearance : Hazy Light 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
- Gellime @ 25°C. (mts.) : 14 - 20  
(\*with 1% of Accelerator A.  
and 1.5 % of 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 gellimes.

***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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## C'POL - 331

### ❖ Mechanical Properties Of Cast Resin

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

<input type="checkbox"/> Tensile Strength (Kgs./cm. <sup>2</sup> )	: 600
<input type="checkbox"/> Elongation at break ( % )	: 2
<input type="checkbox"/> Flexural Strength (Kgs./cm. <sup>2</sup> )	: 1050
<input type="checkbox"/> Heat Distortion Temperature (°C)	: 103
<input type="checkbox"/> Barcol hardness	: 40
<input type="checkbox"/> Volume Shrinkage ( % )	: 8.5

### ❖ **Caution**

**C'POL 331** 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 - 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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