



# CREST COMPOSITES & PLASTICS PVT. LTD.

C'POL 271

Product Data Sheet dated 03/12/2012

revision: 01

- **Product Description:**

**C'POL 271** is a grade 2, medium reactivity, medium viscosity unsaturated Polyester Resin based on Terephthalic Acid specially designed for casting application. Casts made with C'POL 271 possess good electrical and mechanical properties.

- **Physical Properties Of Liquid Resins:**

- Colour & Appearance : Yellow to light brownish slightly hazy Liquid.
- Viscosity @ 25 deg. C. (cps.) :  $400 \pm 50$
- Acid Value (mgs. KOH / g.) :  $17 \pm 3$
- Specific Gravity @ 25 Deg.C. :  $1.13 \pm 0.01$
- Monomer content ( wt.%) :  $36 \pm 2$
- Getime @ 25 deg.C. (mts.) : 10 - 15

(\*with 1% Accelerator A.  
and 1.5% Catalyst C.)

\* Accelerator A. - Solution of 3% 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 getimes.

***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 8 hrs. at 90 deg. C)

□ Tensile Strength (Kgs./cm. <sup>2</sup> )	: 550
□ Elongation at break ( % )	: 3
□ Flexural Strength (Kgs./cm. <sup>2</sup> )	: 900
□ Heat Distortion Temperature (Deg.C)	: 95
□ Barcol hardness	: 30
□ Volume Shrinkage ( % )	: 8

### **Caution**

C'POL 271, like other unsaturated polyester resin has limited shelf life. Storage at 20-25 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 Terephthalate resins:**

- C'POL - 201 - Medium Reactivity Laminating Resin..
- C'POL - 211 - Resin for DMC/SMC applications.
- C'POL - 251 - Resin for Pultrusion Processes.
- C'POL - 231 - Medium Reactivity Chemical Resistant Grade.
- C'POL - 261 - Mechanical Grade 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:

### **Crest Composites & Plastics Pvt. Ltd.**

Survey No. 609, Village: Shetra, Tal. & Dist.: Kheda 387506.

**Tel.No.:** (02694) 281351/281352/281694 **FAX:** (02694) 281352

**E- mail:** [crespolad1@sancharnet.in](mailto:crespolad1@sancharnet.in)