



# CREST COMPOSITES & PLASTICS PVT. LTD.

*Product Data*

## C'POL - 251

Product Data Sheet dated 29/08/2012

revision: 01

### ❖ **Product Description :**

**C'POL - 251** is high reactive unsaturated polyester resin based on Terephthalic Acid. The higher reactivity and comparative lower viscosity makes it particularly suitable for obtaining high line speed in pultrusion applications. The resin can take high filler loading and is compatible with low profile additives. The moulding with this resin exhibits good electrical and mechanical properties.

### ❖ **Salient Features:**

The resin is designed for high HDT to prevent distortion of mouldings on ejection. Products made using this resin would have superior high temperature insulating property.

### ❖ **Physical Properties Of Liquid Resins:**

- |   |                       |
|---|-----------------------|
| <input type="checkbox"/> Colour & Appearance      | : Dark Viscous Liquid |
| <input type="checkbox"/> Viscosity @ 25C.(cps.)   | : 700 - 900           |
| <input type="checkbox"/> Acid Value (mgs. KOH/g.) | : 14-20               |
| <input type="checkbox"/> Specific Gravity @ 25C.  | : 1.13 ± 0.01         |
| <input type="checkbox"/> Monomer content (wt.%)   | : 36 ± 2              |
| <input type="checkbox"/> Geltime @ 82C. (mts.)    | : 7 ± 2               |
- (with 1.4% BPO.Powder)

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)

❑ Tensile Strength (Kgs/cm <sup>2</sup> )	: 650
❑ Elongation at break (%)	: 23
❑ Flexural Strength (Kgs./cm. <sup>2</sup> )	: 1100
❑ Specific Gravity	: 1.22
❑ Heat Distortion Temperature (Deg.C)	: 120
❑ Barcol hardness	: 40
❑ Volume Shrinkage (%)	: 9

### ❖ **Caution**

C'POL 251 is 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 Polyester resins:**

C'POL - 201 - Medium Reactivity.

C'POL - 221 - For Flexible Version.

C'POL - 241 - For Pultrusion Processes

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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