

# CREST COMPOSITES & PLASTICS PVT. LTD.

## C'POL-3621

Product Data Sheet dated 19/02/2014

revision: 01

### ❖ Product Description:

**C'POL-3621** is a, Isophthalic acid based unsaturated polyester resin dissolved in styrene, It is useful in the fabrication of a wide range of FRP structures for hand layup, filament winding and other conventional fabricating techniques. Laminate made with C'POL-3621 exhibits moderate resistance to mild corrosive chemicals including water at ambient temperature.

### ❖ Salient Features:

C'POL - 3621 is designed to give an optimum combination of performance and economy.

### ❖ Physical Properties Of Liquid Resins:

- Colour & Appearance : Hazy yellow liquid
- Viscosity @ 25°C. (cps.) : 200 - 300
- Acid Value (mgs. KOH / g.) :  $11 \pm 3$
- Solid content (wt%) : 55 - 60
- Gel time @ 25° C. (mts.) :  $15 \pm 5$   
(with 1 gm Acc.A and 1gm.Cat.C.)

Accelerator A. - Solution of 1% cobalt as cobalt octoate [NL-49 P/Akzonobel]

Catalyst C. - Solution of 50% MEKP (9% Active Oxygen) [Butanox M-50/Akzonobel]

**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.

# C'POL-3621

## ❖ Mechanical Properties Of Cast Resin

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

- Tensile Strength (MPa) : 80
- Elongation at break (%) : 4 - 5
- Tensile Modulus (MPa) : 3600
- Flexural Strength (MPa) : 120
- Flexural Modulus (MPa) : 3600
- Heat Distortion Temperature (°C) : 95
- Barcol hardness : 40

## ❖ Caution

**C'POL-3621**, like other unsaturated polyester resin has limited shelf life. Storage at 20-25°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.

## 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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