



CREST COMPOSITES & PLASTICS PVT. LTD.

Product Data

C'POL 601

Product Data Sheet dated 22/10/2013

revision: 02

❖ Product Description :

C'POL-601 is typical bishphenol fumarate resin that offers a high degree of chemical resistance to a wide range of acids, alkalies and salt solutions at elevated temperatures.

C'POL-601 is suggested for the fabrication of Chemical process equipments such as storage tanks, pipes linings etc., where resistance to corrosion at high temperatures is desired.

❖ Salient Features :

The high molecular weight Bishphenol moiety in the resin molecule results in fewer ester linkages, thereby increasing the hydrolytic stability of the resin. The trans-isomeric fumaric acid provides the right stereochemistry for reaction with the Bisphenol diol resulting in high thermal resistance of the resin.

C'POL-601 is well suited for different FRP fabrication processes..

❖ Physical Properties Of Liquid Resins:

- Colour & Appearance : Brownish Liquid
- Viscosity @ 25°C. (cps.) : 400 - 600
- Acid Value (mgs.KOH/g.) : 6 - 10
- Specific Gravity @ 25°C. : 1.02 - 1.04
- Monomer content (wt.%) : 48 - 52
- Getime @ 25°C. (mts.) : 14 - 20
(with 0.5% each of Accelerator A., 3% Promoter P.
and 1.5% of Catalyst C.)

Accelerator A - Solution of 3% cobalt as cobalt octoate

Promoter - 10% solution of DMA

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 4 hrs. at 100° C.)

❑ Tensile Strength (Kgs./cm. ²)	: 600
❑ Elongation at break (%)	: 2
❑ Flexural Strength (Kgs./cm. ²)	: 1100
❑ Specific Gravity	: 1.12
❑ Heat Distortion Temperature (°C)	: 115
❑ Barcol hardness	: 40-45
❑ Volume Shrinkage (%)	: 8

❖ **Caution**

C'POL-601 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: (Terephthalates)

C'POL - 201/201(H) - Medium Reactivity

C'POL - 221 - Flexible Version.

C'POL - 211 - For DMC/SMC formulations.

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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