



CREST COMPOSITES & PLASTICS PVT. LTD.

Product Data

C'POL - 711

Product Data Sheet dated 22/10/2013

revision: 02

❖ **Product Description :**

C'POL - 711 is a medium viscosity Vinyl Ester Resin based on Bisphenol A Epoxy Resins useful in the fabrication of a wide range of FRP structures by hand lay up, filament winding and other conventional fabricating techniques. The resin exhibits good resistance to a wide range of chemicals - acids, alkalies and salts - characteristic of Vinyl Ester Resins.

❖ **Salient Features:**

C'POL 711 has a HDT higher than that of C'POL 701. Hence it is suggested for use in higher temperature applications. For the same temperatures it can offer better service life than C'POL 701. It has a lower monomer content. Hence emits lesser vapours during fabrication. Because of its higher HDT, better cure, lower exotherm and lower shrinkage it is also ideally suited for mould making applications.

❖ **Physical Properties Of Liquid Resins:**

- Colour & Appearance : Clear Light Yellow Liquid
- Viscosity @ 25 C (cps.) : 400 ± 50
- Acid Value (mgs. KOH / g.) : 10 maximum
- Specific Gravity @ 25C. : 1.07 ± 0.01
- Monomer content (wt.%) : 37 ± 2
- Geltime @ 25 c. (mts.) : 25 ± 5
(with 1.5% each of Accelerator A.,
Promoter P. and Catalyst C.)

Accelerator A. - Solution of 3% cobalt as cobalt octoate

Promoter P. - Solution of 10% DMA.

Catalyst C. - 50% solution of MEKP (9% Active Oxygen) (Akzonobel Butanox M-50)

> Use of other MEKP Catalysts or additives may result in different geltimes.

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)	: 700
❑ Elongation at break (%)	: 4
❑ Flexural Strength (Kgs./cm. ²)	: 1100
❑ Specific Gravity	: 1.15
❑ Heat Distortion Temperature (Deg.C)	: 115
❑ Barcol hardness	: 40
❑ Volume Shrinkage (%)	: 8

❖ **Caution**

C'POL - 711 is 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. Opening the container to allow fresh air contact, and rolling can help in improving the shelf of C'POL - 711. 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 Vinyl Esters :

- C'POL - 701 - General Purpose
- C'POL -701(P) - Primer applications.
- C'POL - 731 - Superior Vinyl Ester
- C'POL - 731-30 - Superior Vinyl Ester with higher HDT

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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