



CREST COMPOSITES & PLASTICS PVT. LTD.

Product Data

C'POL- A 331-30

(Preaccelerated)

❖ Product Description :

C'POL - A 331-30 is a pre-accelerated medium reactivity Unsaturated Polyester Resin based on Isophthalic Acid useful for the fabrication of a wide range of FRP structures for Chemical and Marine Industry using conventional processing techniques viz Hand lay-up, Spray up etc. Structures made with C'POL-A 331-30 possess excellent resistance to water and host of corrosive chemicals such as dilute acids and salt solutions including sea water.

❖ Salient Features:

C'POL- A 331-30 is an environment friendly resin and is specially designed to give much less monomer emission than the conventional isophthalic resin. The low emission feature makes it an ideal resin for use in fabrication of large structures viz. Boat Hulls, Super Structures, Storage tanks etc.

❖ Physical Properties Of Liquid Resins:

- **Colour & Appearance** : Pinkish Viscous Liquid.
- **Viscosity @ 23 Deg. C. (cps.)** : 750 ± 150
Spindle 2, RPM-30
(ISO 2555)
- **Acid Value (mgs. KOH / g.)** : 15 ± 1.5
(ISO 2114)
- **Density @ 23 Deg. C. (gms/ml)** : 1.11 ± 0.01
(ISO 1675)
- **Monomer content (wt.%)** : 35 ± 3.5
(ISO 3251)
- **Geltime @ 25 Deg. C. (mts.)** : 25 ± 5
(ISO 2535:2001 (E)
(1.4ml - *MEKP solution in per 100 gm of resin)
MEKP- 50% Solution of MEKP (9% Active Oxygen) (Akzonobel Butonox M-50)

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

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 at 8 hrs. at 70 Deg. C. and followed by for 4 hrs. at 100 deg. C)

- ❑ **Tensile Strength (N/mm.²)** : **60**
ISO 3268-1978 (E)
- ❑ **Flexural Strength (N/mm.²)** : **105**
ISO 178 -1975 (E)
- ❑ **Heat Distortion Temperature (Deg.C.)** : **80**
ISO 75: 1987(E)
- ❑ **Barcol hardness** : **40**
ASTM D 2583 95(2001)
- ❑ **Linear Shrinkage (%)** : **2%**
ASTM D 2566

❖ **Caution**

C'POL- A 331-30 is a material 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. 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 Chemical Resistant Resins:

C'POL - 231 - Low Cost Terephthalate Resin

C'POL - 301 - Premium Isophthalic Resin.

C'POL - 601 - Bisphenol Resin.

C'POL - 701 - General Purpose Vinyl Ester Resin.

C'POL - 731 - Superior Vinyl Ester 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:

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