

CREST COMPOSITES & PLASTICS PVT. LTD.

C'POL-3311

Product Data Sheet dated 23/09/2015

revision: 00

❖ Product Description:

C'POL 3311 is a medium reactivity Unsaturated Polyester Resin based on Isophthalic Acid useful for the fabrication of a wide range of hand moulded FRP structures for Chemical Industry, Structures made with C'POL- 3311 possess excellent resistance to water and host of corrosive chemicals such as dilute acids and salt solutions.

❖ Salient Features:

C'POL-3311 is designed to give an optimum combination of performance and economy. The resin has been successfully used for the fabrication of many corrosion resistant structures.

❖ Physical Properties Of Liquid Resins:

- Colour & Appearance : Light Yellow Liquid.
- Viscosity @ 25°C. (cps.) : 400-600
LVF, Spindle 3, rpm-12
- Acid Value (mgs.KOH/g.) : Max 15
- Specific Gravity @ 25°C. : 1.10 - 1.20
- Solid content (wt.%) : 57-63
- Gel Time @25°C
(with 0.5 ml Acc. C and 1.5 ml Cat C) : 12-18 mins

Catalyst C – 50% solution of MEKP (9% Active Oxygen) (Akzonobel Butonox M-50)
Accelerator A. - Solution of 3% cobalt as cobalt octoate.

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: (3 mm)

- Tensile Strength at 25 (°C) (psi) : 8500 - 11500
- Elongation at break at 25 (°C). (%) : 2 - 3
- Flexural Strength at 25 (°C) (psi) : 19000 - 25,000
- Heat Distortion Temperature (°C) : 105
- Barcol hardness : 55 - 60
- Water absorption in 24 hrs. (%) : 0.15

❖ Caution

C'POL 3311 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:

Crest Composites & Plastics Pvt. Ltd.

Survey No. 609, Village: Shetra, Tal & Dist. : Kheda 387506.

Tel.No.: (02694) 81351/81352/81694 **FAX:** (02694) 81352

E-mail : cpol@crestcomposites.com