

CREST COMPOSITES & PLASTICS PVT. LTD.

C'POL-331S

Product Data Sheet dated 03/12/2012

revision: 01

❖ Product Description:

C'POL-331S is a medium reactivity Unsaturated Polyester Resin based on Isophthalic Acid. Structures made with C'POL - 331 S possess good chemical and mechanical properties.

❖ Salient Features :

C'POL- 331 S is specially designed for filament winding and it shows good glass wetting.

❖ Physical Properties Of Liquid Resins:

- Colour & Appearance : Yellow liquid.
- Viscosity @ 25°C. (cps.) : 350 - 450
- Acid Value (mgs. KOH/g.) : 6 - 12
- Specific Gravity @25°C. : 1.07 - 1.11
- Monomer content (wt.%) : 41 - 47
- Geltime @ 25°C. (mts.) : 16 - 20
(with 0.5% Accelerator A.
and 1.25% of Catalyst C.)

Accelerator A. - 3% Solution of Cobalt as Cobalt Octoate.

Catalyst C – 50% solution of MEKP (9% Active Oxygen) (Akzonobel Butonox 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.

C'POL - 331S

❖ Mechanical Properties Of Cast Resin

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

- Tensile Strength (Kgs./cm.²) : 600
- Elongation at break (%) : 3.5
- Flexural Strength (Kgs./cm.²) : 1100
- Heat Distortion Temperature (Deg.C) : 90
- Barcol hardness : 40
- Volume Shrinkage (%) : 8

❖ Caution

C'POL-331S is a material 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 Chemical Resistant Resins:

C'POL - 301 - Premium Isophthalic Resin.
C'POL - 701 - General Purpose 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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