

CREST COMPOSITES & PLASTICS PVT. LTD.

C'POL – 751C

❖ Product Description:

C'POL-751 C is a medium viscosity Brominated Vinyl Ester Resin based on Brominated Bisphenol - A Epoxy Resin specially designed to offer high degree of fire retardant properties while exhibiting excellent chemical resistance. To enable a high level of flame retardance, antimony compound may be added to the resin.

❖ Salient Features:

Laminates made with C'POL – 751C provides excellent resistance to acids and alkalis at room and elevated temperatures and specially recommended in situations where chemical resistance coupled with high degree of fire retardant properties are required. It is ideal for use in stack liner, hot gases and other potentially fire hazard situations. Laminates made with C'POL – 751C exhibits excellent mechanical properties and meets Class-II, low flammability criteria. However with the incorporation of Antimony compound, laminates made with 751C would meet Class-I, very low flammability criteria.

❖ Physical Properties Of Liquid Resins :

- Colour & Appearance : Off White Opec Liquid
- Viscosity @ 25 °c (cps.) : 350 - 450
- Acid Value (mgs. KOH / g.) : 4 -10
- Specific Gravity @ 25 °c. : 1.14 ± 1.18
- Monomer content (wt.%) : 33 - 37
- Geltime @ 25 °c. (mts.) : 20 – 30
(with 1% each of Catalyst C.,
Accelerator A, and Promoter P.)

Catalyst C – Solution of 50% MEKP.

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

Promoter P – Solution of 10% D.M.A.

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)

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| □ Tensile Strength (Kgs./cm. ²) | : 900 |
| □ Flexural Strength (Kgs./cm. ²) | : 1200 |
| □ Specific Gravity | : 1.34 |
| □ Heat Distortion Temperature (Deg.C) | : 104 |
| □ Barcol Hardness | : 35 |
| □ Elongation at Break | : 3-4% |
| □ Volume Shrinkage (%) | : 8 |

❖ Caution

C'POL – 751C 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 – 751C. 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.

Vinyl Ester Range:

- C'POL – 701 – General Purpose
- C'POL 791 - for Primer applications
- C'POL – 711 – High HDT Vinyl Ester Resin
- C'POL - 731 – Superior Vinyl Ester
- C'POL - 741 - Vinyl Ester Pultrusion Resin
- C'POL – 751 – Brominated Vinyl Ester Resin

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) 281351/281352,281694 FAX : (02694)281352
E-mail : cpol@crestcomposites.com