



CREST COMPOSITES & PLASTICS PVT. LTD.

Product Data

C'POL-781

Product Data Sheet dated 22/10/2013

revision: 02

❖ **Product Description :**

C'POL - 781 is a vinyl ester resin specially designed for SMC/DMC application. The resin has a medium viscosity and a high reactivity and can be thickened with magnesium oxide. Epoxy Vinyl Ester Resins is produced by the reaction of special type of epoxy with unsaturated monocarboxylic acid.

❖ **Applications:**

The moulded products using this resins exhibits very good mechanical properties, high resistance to heat deformation and excellent toughness. Moreover, it retains these properties at elevated temperature and can be employed for continuous dry heat environments. It has also better corrosion resistance than other conventional polyesters.

❖ **Physical Properties Of Liquid Resins:**

■ Colour & Appearance	: Greenish Liquid
■ Viscosity @ 25C. (cps.)	: 700 - 1000
■ Acid Value (mg.KOH / g.)	: 22 - 26
■ Specific Gravity @ 25C	: 1.09 ± 0.02
■ Monomer content (wt.%)	: 40 - 44
■ Gelltime @ 140C. (sec.) (with 1.3% TBPB)	: 60 - 100

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 125C)

<input type="checkbox"/> Tensile Strength (Kgs./cm. ²)	: 800
<input type="checkbox"/> Elongation at break (%)	: 3.5
<input type="checkbox"/> Flexural Strength (Kgs./cm. ²)	: 1400
<input type="checkbox"/> Heat Distortion Temperature (°C)	: 151
<input type="checkbox"/> Barcol hardness	: 45
<input type="checkbox"/> Volume Shrinkage (%)	: 8

❖ **Caution**

C'POL - 781 is 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. Opening the container to allow fresh air contact, and rolling can help in improving the shelf of C'POL - 781. Material is guaranteed for a shelf life of 2 months from manufacturing date when stored at suggested conditions. Storage at higher temperatures will adversely affect shelf life.

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