



CREST COMPOSITES & PLASTICS PVT. LTD.

Product Data

C'POL 1801

version:01

Product Data Sheet dated 01/07/2013

❖ Product Description :

C'POL 1801 is a medium viscosity, high reactivity unsaturated polyester resin based on orthophthalic acid and standard glycols. The resin can take high filler loadings as required by SMC formulations and is compatible with low profile additives.

❖ Applications:

The resin has a low cure time enabling faster production rate. The mouldings with this resin exhibits good electrical and mechanical properties and has a excellent surface finish. The resin can be readily thickened with magnesium oxide.

❖ Physical Properties Of Liquid Resins:

Colour & Appearance	: Clear Light Yellow liquid.
<input type="checkbox"/> Viscosity @ 25 Deg.C. (cps.)	: 1000 - 1200
<input type="checkbox"/> Acid Value (mgs. KOH/g.)	: 22 ± 4
<input type="checkbox"/> Specific Gravity @ 25 Deg.C.	: 1.12 - 1.14
<input type="checkbox"/> Monomer content (wt.%)	: 30 ± 4
<input type="checkbox"/> Geltime @ 140 Deg.C. (sec.) (with 1.3% TBPB)	: 90 - 180

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 8 hrs. at 100 deg. C)

<input type="checkbox"/> Tensile Strength (Kgs./cm. ²)	: 550
<input type="checkbox"/> Elongation at break (%)	: 2 - 3
<input type="checkbox"/> Flexural Strength (Kgs./cm. ²)	: 1100
<input type="checkbox"/> Heat Distortion Temperature (Deg. C)	: 112
<input type="checkbox"/> Barcol hardness	: 40
<input type="checkbox"/> Volume Shrinkage (%)	: 9

❖ Caution

C'POL-1801 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.

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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