



CREST COMPOSITES & PLASTICS PVT. LTD.

Product Data

C'POL-381 S

Product Data Sheet dated 24/04/2012

revision: 01

❖ **Product Description :**

C'POL - 381S is a medium Viscosity, high reactivity unsaturated polyester resin based on isophthalic acid and standard glycols. The resin can take high filler loadings as required for SMC/DMC formulations and is compatible with low profile additives.

❖ **Applications :**

The resin can be easily thickened with magnesium oxide and has a low cure time enabling faster production rate. The moulded products using this resin exhibits good electrical and mechanical properties with a good surface finish.

❖ **Physical Properties Of Liquid Resins:**

- Colour & Appearance : Clear light yellow Liquid.
- Viscosity @ 30°C. (cps.) : 1000 - 1200
- Acid Value (mg.KOH/g.) : 14 - 18
- Specific Gravity @ 25°C. : 1.12 ± 0.01
- Monomer content (wt.%) : 31 - 35
- Geltime @ 140°C. (sec.) : 50-70
(with 1.3% TBPB)

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° C)

❑ Tensile Strength (Kgs./cm. ²)	: 600
❑ Elongation at break (%)	: 2 - 3
❑ Flexural Strength (Kgs./cm. ²)	: 1100
❑ Specific Gravity	: 1.22
❑ Heat Distortion Temperature (°C)	: 120
❑ Barcol hardness	: 45
❑ Volume Shrinkage (%)	: 9

❖ **Caution**

C'POL-381S 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.

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.

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