



ORGI CHEMIE FZ LLC

OCPOL 700(HV)

Ocpol 700 is a clear non-Accelerated orthophthalic unsaturated polyester resin. It is highly water resistance. Due to its outstanding stability and excellent performance it is use in boats water tanks, bath tubs shower tub etc.

Recommendation for Laminating:

Parts by weight:

| | |
|---------------|--------|
| Ocpol 700(HV) | 100 |
| Cobalt 1% | 1.5 gm |
| Catalyst K 10 | 1.5 gm |

Applications:

- To start the curing reaction, take 100 parts of resin.
- Catalyst K 10 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in under cure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

| | |
|---|----------------|
| Appearance. | Clear |
| Viscosity at 25°C (Brookfield , sp. 3@60 rpm | 700 - 800 cps. |
| Gel Time at 25°C | 18 – 25 min |
| Acid value mg KOH/g | < 26 |
| Solid content % | 60±2 |
| Specific Gravity at 25°C | 1.10 – 1.13 |
| Peak Temperature | 165 - 175 |

Properties of fully cured resins (unfilled casting):

| | |
|--------------------------------------|-----------------|
| Barcol hardness (Model GYZJ 934 – 1) | 43 - 47 |
| Water absorption 24 h at 23°C | 15 - 18 mg |
| Elongation at break at 20°C | 1.9 – 2.2 % |
| Tensile Strength | 70 - 75 Map |
| Tensile Modulus | 3500 - 3750 Map |
| Flexural Strength | 120 - 130 Map |
| Flexural Modulus | 3600 - 3800 Map |
| Heat Deflection Temperature | 70 - 75°C |

Packing:

Ocpol 700(HV) is supplied in 220 Kg new steel drums with close top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet.

Remarks:

The information submitted in this publication is given in good faith but without warranty, In view of the many factors that may affect the application, users are recommended to carry out their own trials to determine the suitability of the product for their practical requirements. We cannot accept responsibility for any damage or loss resulting from the use of this information.

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