

Chemical / physical nature:

UP - 920 is an Orthophthalic unsaturated poly-ester resin with medium reactivity and medium Viscosity.

Major application:

Polyester resin UP-920 is a resin for making molded parts and making blocks based on polyester and silica filler and other manual uses etc.

Stability:

Under the above mentioned storage condition the stability of UP - 920 will be 4 month ex work.

Storage:

UP - 920 should be storage indoors in original Unopened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sunlight should be avoided



Technical information:

| Specific | Amount | Unit | Standard |
|----------------------------|-------------|----------|----------|
| Solvent | Styrene | | |
| Appearance | Clear | | |
| Solid content | 65+ 2 | Percent | ISO 3251 |
| Acid Value | Max: 30 | mg KOH/g | ISO 2114 |
| Viscosity of SMC,BMC resin | 400-800 | CPS | ISO 2555 |
| Density | 1.13 + 0.5% | g/cm3 | ISO 1676 |
| Gel time* | 7 -10 | min | * |
| Exothermic Peak | 145 - 160 | °C | * |
| Exothermic time | 15 - 30 | Min | * |

* 100 gr resin UP - 920 with 1 gr cobalt octoate 1% metal and 1 gr MEKP at 25°C.

Properties of cast resin :

| Specific | Amount | Unit | Standard |
|---------------------|-------------|---------|-------------|
| Tensile strength | 65 - 85 | MPa | ISO 527 |
| Elongation at break | 3-6 Percent | Percent | ISO 527 |
| HOT | 55 + 3 | °C | ISO 75 |
| Hardness | 40 min | Barcol | ASTM D 2583 |

*100gr resin with cobalt octoate 1% metal : 1% and MEKP:1% Post cure: 24 hour at room temperature and 2 hour at 80 °C.