

Chemical / physical nature:

UP - 964 is an Orthophthalic unsaturated polyester resin with moderate reactivity and consumer's required Viscosity.

Major application:

The UP-964 polyester is an appropriate resin for solid surface production. Also due to its high flexibility, this resin is invented for sheet molding compounds and other general fiberglass applications.

Stability:

Under the above mentioned storage condition the stability of UP - 964 will be 4 month ex work.

Storage:

UP - 964 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	300-800	CPS	ISO 2555
Density	1.13 + 0.5%	g/cm3	ISO 1676
Gel time*	8 -12	min	*
Exothermic Peak	140 - 170	°C	*
Exothermic time	10 - 20	minute	*

* 100 gr resin UP - 964 with 1 gr cobalt octoate 1% metal and 1 gr MEKP at 25°C.

Properties of cast resin :

Specific	Amount	Unit	Standard
Tensile strength	50 - 70	MPa	ISO 527
Elongation at break	3-6	Percent	ISO 527
Elongation at break	3-6	Percent	ISO 527
HOT	45 + 2	°C	ISO 75
Hardness	45 min	Barcol	ASTM D 2583

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