

Orthophthalic unsaturated polyester Resin UP-964

Chemical / physical nature

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

Major applications

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.

Specification

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	300-800	cps	ISO 2555
Density	1.13±0.5%	g/cm ³	ISO 1675
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*

Property	Value	Unit	Standard
Tensile strength	50-70	MPa	ISO 527
Tensile modulus	3-6	GPa	ISO 527
Elongation at break	3-6	Percent	ISO 527
HDT	45 ± 2	°C	ISO 75
Hardness	Min 45	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.

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.

Stability

Under the above mentioned storage condition the stability of UP - 972 will be 4 month ex work.

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