

Chemical / physical nature:

UP - 320 is an Orthophthalic unsaturated polyester resin with high reactivity and consumer's required viscosity.

Major application:

Polyester resin UP-320 is a resin for use as a mastic resin in direct systems. This resin has good solvent absorption and excellent powder absorption. The mastic produced from this resin has excellent likability. In order to cook the produced mastic, it is necessary to add about 0.1% of amine (such as dimethylaniline) and cook with one to two percent of benzoyl peroxide paste.

Stability:

Under the above mentioned storage condition the stability of UP - 320 will be 4 month ex work.

Technical information:

Specific	Amount	Unit	Standard
Solvent	Styrene		
Appearance	Viscose liquid		
Solid content	70 + 2	Percent	ISO 3251
Acid Value	Max :45	mg KOH/g	ISO 2114
Viscosity of SMC,BMC resin	800-1200	CPS	ISO 2555
Density	1.13 + 0.5%	g/cm3	ISO 1676
Gel time*	8 -10	min	*
Exothermic Peak	110 - 140	°C	*
Exothermic time	14 - 18	Min	*

* 100 gr resin UP - 320 with 4 gr cobalt octoate 0.1% metal and 1 gr MEKP at 25'C.

Properties of cast resin :

Specific	Amount	Unit	Standard
Tensile strength	65 - 75	MPa	ISO 527
Tensile modulus	4-7	MPa	ISO 527
Elongation at break	3-5	Percent	ISO 527
HOT	50 + 2	°C	ISO 75
Hardness	40 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.

