

Chemical / physical nature:

UP - 201 is an Isophthalic unsaturated polyester resin with high reactivity and medium viscosity. This resin has a high resistance to weather conditions and UV due to its chemical nature and its additives.

Major application:

UP - 201 is intended for production of fiber-glass composite materials due to its excellent chemical and hydrolysis resistance, including liquid transfer pipes, chemical storage tanks, boats used in tropical seas and so on.

Storage:

UP - 201 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-201 will be 4 month ex work



Technical information:

Specific	Amount	Unit	Standard
Solvent	Styrene		
Appearance	Clear		
Solid content	58 + 2	Percent	ISO 3251
Acid Value	Max20	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 -15	min	*
Exothermic Peak	170 -185	°C	*
Exothermic Time	15 - 30	Min	*

* 100 gr resin UP - 201 with 1 gr cobalt octoate 1% metal and 1 gr MEKP at 25°C.

Properties of cast resin :

Specific	Amount	Unit	Standard
Tensile strength	75 - 95	MPa	ISO 527
Tensile modulus	3-4	MPa	ISO 527
Elongation at break	4-7	Percent	ISO 527
HOT	80 + 2	°C	ISO 75
Hardness	Min 40	Barcol	ASTM D 2583

*100gr resin with cobalt octoate 1% metal : 1.5% and MEKP:1.5% Post cure: 24 hours at room temperature and 2 hour at 80 °C.