

TYPE:

Unsaturated Polyester Resin

Isophthalic Polyester Resin

DELIVERY FORM:

JSB-IUP 200-ST65

INTRODUCTION:

JSB-IUP 200-ST65 is an un-promoted NPG/isophthalic based unsaturated polyester resin with very low color, medium viscosity, limited shrinkage and water absorption and very good mechanical properties for ambient temperature cure with MEK peroxide.

TECHNICAL PROPERTIES:

<u>SPECIFICATIONS</u>	<u>IUP 200-ST65</u>	<u>UNIT</u>	<u>TEST METHOD</u>
Appearance	Clear	NA	NA
Color	Max 2	Gardner	ASTM D1544
Viscosity (at 25°C)	800-1200	mPa.s (cP)	ISO 2555
Density (at 23°C)	1.12±0.01	g/cm ³	ASTM D1475
Acid number	Max 20	mg KOH/g	ASTM D1639
Solid content	66±2	%	ASTM D1259
Gel time*	420-720	Sec	Internal standard
Curing time	300-600	Sec	ASTM D2471
Peak exothermic temperature	Max 210	°C	ASTM D2471
Water absorption	Max 0.3	%	ISO 62
Flash point (open cup)	24±1	°C	ASTM D92

* Promoter: 0.5 g Cobalt (10%) in 100 g resin @25 °C

Initiator: 1 g MEKP (50%) in 100 g resin

PROPERTIES:

- Very low color
- Medium viscosity
- Limited shrinkage and water absorption
- Good adhesion to glass fibers
- Resistant to hydrolysis
- Very good mechanical and chemical properties

APPLICATIONS:

- Abrasive and grindstone applications
- Gel coats

TYPICAL Non-REINFORCED CASTING PROPERTIES

<u>PROPERTIES</u>	<u>VALUE</u>	<u>UNIT</u>	<u>TEST METHOD</u>
Tensile strength	Min 75	MPa	ISO 527-2
Tensile Elongation	7	%	ISO 527-2
Flexural strength	Min 140	MPa	ISO 178
Flexural modulus	3448	MPa	ISO 178
Heat distortion temperature (HDT)	Min 90	°C	ASTM D648
Hardness (Barcol)	Min 45	NA	ASTM D2583
Linear shrinkage ($\Delta L/L$)	Max 1.1	%	ASTM D2566

Product safety and Environmental protection:

The usual protective measures employed during the handling of Unsaturated Polyester Resins should be observed. Further product safety information can be obtained from our Material Safety Data Sheet which is available on request.

Packaging:

200kg (net) in steel drums.

Storage:

Store in a cool place below 25 °C and away from moisture and direct sunlight. Under above mentioned storage conditions, the shelf life of the resin will be at least 6 months ex-works.

THE OFFERED RECOMMENDATIONS ARE BASED UPON OUR EXISTING KNOWLEDGE MERELY TO BE DEEMED AS START FORMULATIONS. THEREFORE, THERE IS NO GUARANTEE, I.E., WE ASSUME NO LIABILITY IN THIS REGARD AND THIS IS BECAUSE THE APPLICATION METHODS AND CONSUMPTION CONDITIONS ARE OUT OF OUR CONTROL. HENCE, THE ESTEEMED CONSUMERS ARE TO EVALUATE THE FORMULATIONS IN THEIR OWN LABS PRIOR TO PRODUCTION.

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۴ واحد ۴

فکس: ۰۲۱۸۸۶۹۹۰۸۳ - تلفن: ۰۲۱۸۸۶۹۸۸۱۷ - ۰۲۱۸۸۶۹۶۵۵۳

کارخانه: شیراز. شهرک صنعتی بزرگ. میدان ابتکار. خیابان ابتکار جنوبی.

خیابان ۲۵۵

فکس: ۰۷۱۳۷۷۴۳۹۹۵ - تلفن: ۰۷۱۳۷۷۴۲۱۲۱-۲