



## Polyester Resin IK 200

### Technical Data Sheet

**Product Name:** IK-200 low viscosity unsaturated polyester resin.

**Description and Application:** special purpose resin developed for coherent attaching of glass sheets by using special techniques with its low colour and easy air-release characteristics it can successfully be used for the production of thick glass sheets that might also be coloured well.

It may also be used in other applications where its low viscosity and medium reactive characteristics may be advantageous.

### Typical properties of liquid resin.

Property <sup>*1</sup>	Value
Acid Value	30 ± 2 mgr KOH/gr
Appearance	Clear liquid
Solid content	64 ± 3 %
Viscosity <sup>*2</sup>	150 - 200 cps
Specific gravity	1.05 - 1.1 gr/cm <sup>3</sup>
Gel time <sup>*3</sup>	10 – 13 min
Time to Peak	20 - 27 min
Peak exotherm	120 ±5 °C
Shelf life	6 Month

\*1: Measurement was obtained under 25°C

\*2: LVT# 3-60 rpm (@) 25 °C

\*3: Cobalt 10%, 0.1 phr MEKP A 60, 1.5% (@) 25°C



## TYPICAL CLEAR CASTING PROPERTIES OF CURED

PROPERTY	ST <sup>*</sup> *4	TEST METHOD
Tensile strength	50 ± 5 MPa	ASTM D638
Tensile modulus	2.0 - 2.2 Gpa	ASTM D638
Tensile elongation	5 - 7 %	ASTM D638
Flexural strength	90 – 100 Mpa	ASTM D790
Flexural modulus	3.2 – 3.4 Gpa	ASTM D790
Volume shrinkage	3 – 5 %	ASTM D2566
HDT <sup>*</sup> *5	50 ± 5 °C	ASTM D648
Barcol Hardness	35 ± 2	ASTM D2583

\*4: ST values based on conversion

\*5: Cure condition for HDT 24 hours at room temperature then 2 hours at 105°C

### Notice in Use and storage:

1. If IK200 is blended with cobalt salt promoters shelf life will be shortened. promoted IK200 must be used within three months.
2. The gel time of IK200 is affected primarily by catalyst concentration and temperature. The variation of cure characteristics may be caused by the variations of catalyst. Humidity pigment fillers and other additives it is recommended that the fabricators check the cure characteristic with a small quantity resin before proceeding for bulk production.
3. IK200 contains organic solvent (styrene), keep away from heat sparks and flames.
4. IK200 is a potentially reactive chemical please store it in dark and keep away from heat and direct sunshine.
5. Containers not completely emptied must be closed immediately after use.

### PACKAGE:

Standard packing is 200 kg steel drum.