

1. Type

Non-waxed, Non-promoted, ISO-NPG type Gel-coat resin.

2. Use

POLYSTAR UG-281S is an Iso type gel-coat polyester resin which is designed for the Bathtub, Counter top of bright color.

3. Distinguishing Characteristics.

- Good heat resistance.
- Good transparency.
- Good solvent resistance.
- Good boiling water resistance.

4. Liquid property*

	Units	Spec	Remarks
Viscosity	mPa.sec	14000-18000	RV #4, 4 rpm
Thixotropic Index	-	5.5 - 7.0	2/20 rpm
Gel-time	min	6 - 18	M50 1.8 phr at 25°C

*1. Values are representative.

Specification limits are available upon request.

5. Typical Properties: Cured Resin *2

	Units	Results	Remarks
Barcol Hardness	-	42	934-1
Heat Distortion Temp	°C	77-82	
Water absorption	wt %	0.19	24 hrs, weight gain

6. The term of guarantee

- 3 month
- Do not leave the Resin at the place of direct sunlight or heat.

7. Caution Rules at Hardening

- The Gel-time is a change working conditions (ex. temperature, humidity). Please adjust amount of hardener & promoter according to working conditions, before use.
- The hardener amount is appropriate 1% of resin for suitable hardening.
- As hardening can be delayed according to work temperature, you should use it in proper temperature.

8. Caution Rules at Use

- Keep it at the place that can cut off heat, light. Please pay attention to firearms.
- As a hardener can explode, Please keep it at the place that can avoid the heat, a shock, A direct sunlight.
- If hardener and promoter come directly in contact, they can explode. You should not keep together at all it.
- Put on gloves and a mask when you work.
- Ventilate a workplace at any time.
- After use, residual resin should seal. (Water, dust get into the resin or Styrene monomer evaporates, and the resin can be degenerated.)
- Styrene uses below 3percents in order to adjust viscosity
- Please use the amount that use is possible only within work time.
- If the resin or a hardener get into worker's eyes, Please wash eyes immediately more than 15 minutes with running water and get from prescription of a doctor.