

**TOYOBO TECHNICAL INFORMATION**

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**TOYOBO UV CURABLE RESIST INK  
(DOT SPACER INK)  
CR-103C-1**

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**1. Characteristics**

1. CR-103C-1 is a screen printable and UV curable resist ink( dot spacer ink) for clear touch panels(ITO film).
2. CR-103C-1 gives an excellent adhesion to the substrates such as ITO film.
3. CR-103C-1 gives good transeparence.
4. CR-103C-1 is improved version of CR-102C-23 which has faster curing speed.
5. CR-103C-1 contains no solvent, It brings good production-enviroment to the operators.
6. CR-103C-1 offers uniform printability of good reproduction using a conventional screen.

**2. Typical Physical Properties of CR-103C-1**

	CR-103C-1	CR-102C-23
Solid Content	100%	100%
Appearance	White	White
Viscosity(@25 °C, BH Type, 20rpm)	550dPa · s	650dPa · s
T.I.(Viscosity at 2 rpm / Viscosity at 20 rpm)	2.9	3.3
Density(@25 °C)	1.15	1.15
Film Appearance (transeparence)	Good	Good
Adhesion to ITO film	Excellent	Excellent
Pencil Hardness	2 B	3 B
Curing Conditions *)	UV1,000mJ/cm2	UV1,500mJ/cm2

## \*) Curing Conditions

The curing conditions in the table are determined carefully, but please test at each customer before actual usage.

### 3. Notes

- 1 . Avoid storage under direct sunlight. Keep containers close when it is not in use.
- 2 . CR-103C-1 contains flammable organic monomers. Use of fire is strictly prohibited and be careful of ventional in the working place.
- 3 . CR-103C-1 would be stirred and mixed well before usage,please.
- 4 . Typical Curing Conditions : UV1,000mJ/cm2  
The curing conditions in the table are determined carefully, but please test at each customer before actual usage.
- 5 . If eye irritation develops,flush with plenty of water for at least 15 min and consults a physician.  
If skin irritation develops,wash with mild soap and flush with plenty of water.
- 6 . Although the data in this technical information are carefully tested, please test it before actual usage.
- 7 . Read MSDS carefully.