

Finish of printing surface film becomes CHIJIJI pattern by using UV CHIJIJI ink on each materials, and by UV CHIJIJI Ink irradiation machine (two steps irradiation TJ System).



1. usage

- Direct printing is possible for paper, poly vinyl chloride plate, sticker, polycarbonate plate and easy adhesive PET. Need anchor-coating for untreated PET, acrylic plate, metal and glass.

2. Ink

- TJN medium A: Standard
- TJN medium H: High viscosity for thicker deposit
- TJN medium L: Low viscosity grade for viscosity adjustment
- TJN medium T: High viscosity grade. For transparent and weather durable finish
*By addition of little (below 3%) color paste (SOX) , a light colored ink can be printed.

3. Printing and Drying

- 90 mesh screen is standard. Drying is done by first CHIJIJI machine and them V hardening equipment
Conveyor speed 5m/min (accumurated light amount around 210mj/cm² and over)

4. Arrangement of CHIJIJI pattern

- CHIJIJI pattern can be arranged by mainly thickness of ink printed , or other elements.

.	Fine pattern	Coarse pattern
Thickness of ink printed	thin	thick
Conveyor speed	fast	slow
Viscosity of Ink	low	high
Distance from an irradiation lamp	far	close
Number of an irradiation lamp	little(2 lamps)	many(over 3)

* TJN Ink (TJN Medium A) The performance list of printing surface film

Testing item	Test	Remarks
Adhesivity	100/100	Removing of cross cutting adhesive tape taping after cross - cut
Hardness of pencil	H	Test of Hardness of pencil loading 1kg with 45 dig. angle
Methanol-resistant	OK	Methanol rubbing loading 1kg
Water-resistant	OK	Immersing into water for 24 hours.
Acid-resistant	OK	Immersing into 10% hydrochloric acid for 24 hours.
Alkali-resistant	OK	Immersing into 10% sodium hydroxide for 24 hours.
Boiling-resistant	OK	Immersing into boiling water for 7 hours.
Heat-resistant	OK	80C *24 hours.
Weather-durability	*1	Promoted weather-durability test(Xenon weather meter)

* Printing and Drying Condition

- Materials: PC plate, poly vinyl chloride sticker
- Screen plate: Tetron 90 mesh
- Squeegee: Urethane middle hardness
- Drying equipment: CHIJIMI Machine 2 lamps, UV conveyor 80W/cm² 1lamp Conveyor speed 3m/min, 1 passing

*1 Accerelated weathering - test(Xenon weather meter)

TJN Medium A	400 hours	OK
	600 hours	luster is decreased little.
	800 hours	luster is decreased little.
	1000 hours	luster is decreased
TJN Medium T	1500 hours	OK