## **F**Teikokulnk **Product Information**

## **ERX** Ink series

## (Low-odor, Environmentally-friendly ink for Nameplates)

ERX inks are low-odor, environmentally friendly inks that do not contain environmentally hazardous substances such as benzene, toluene, xylene, and isophorone. One-pack screen printing ink with excellent re-solubility, suitable for fine printing of nameplates, etc., and excellent flexibility and heat resistance of the during post-processing.

Applications	Nameplates for home appliance and automobile				
Special Features	<ul> <li>Good adhesion to various substrate and low odor</li> <li>Semi-gloss finish with excellent weather resistance and heat resistance</li> </ul>				
Substrates	Easy-adhesion PET film, PC(Polycarbonate) film and sheet *Annealing (preheating) may be required for some materials, please check before use.				
Dilution	F-001 SOLVENT (extra fast dry)F-002 SOLVENT (fast dry)F-003 SOLVENT (stamdard)Z-705 SOLVENT (slow dry)DILUTION 10 to 15%				
Catalyst/Promoter mixing	Not necessary				
Additives	SM-40 DEFOAMER 3% or less (for anti-foam and improve leveling)				
Recommended Cleaner	Screen Cleaner L2				
Mesh	T200 to 300 mesh (Coverage is Black 35 to 40 m²/kg, White 30 to 35m²/kg at 250 mesh).				
Drying	80°C 30 min *Insufficient drying m dry thoroughly.	nay cause blocking, please	<u>Overprint</u> Each layer 80°C 10 min (tack-free) Final layer 80°C 30 min		
Standard Colors	000MEDIUM 001VICTORIA 003 BRIGHT RED 121SCARLET 161SCARLET 168SCARLET 177OPAQUE RED 182RED	221 YELLOW 246 LIGHT YELLOW 263 REDDISH YELLOW 271 OPAQUE LIGHT YEL 277 OPAQUE REDDISH 391 BLUE 525 ORANGE 577 OPAQUE ORANGE		581 MAGENTA 611 WHITE 621 WHITE 675 OPAQUE WHITE 797 GREEN 821 VIOLET 911 BLACK 971 BLACK	

Caution	<ul> <li>Checking before commercialization: Adhesion and resistance properties may change due to differences in substrates, processes, printing and drying conditions. Be sure to check the adhesiveness and resistance properties before mass production printing.</li> <li>Ink shelf life: 24 months from production date, unopened.</li> </ul>
Safety	UN No.: Not classified in the definition UN Classification: Not classified in the definition
Handling	<ul> <li>Use safety gloves and eyeglasses to protect skin and eyes. If the ink comes in contact with skin, wash with soap and plenty of water (or lukewarm water) and consult with a doctor.</li> <li>Containers should be closed tightly after use and stored in a cool and dark place.</li> <li>SDS is available upon request. Please request a copy and read it carefully before handling the products.</li> </ul>

## Resistance

Test items	Test conditions	
Adhesion	JIS K 5600-5-6:ISO2409(Cross-cut), 1mm interval 6x6 cuts, Cellophane tape and peel	0(No peel off)
Scratch hardness	JIS K 5600-5-4:ISO 15184(Pencil method)、750g weight, hardness of the pencil which does not make scar	н
Heat	110°C、48 hrs.、check appearance and peeling off from the substrate	No defect
Water	168 hrs. in city water	No defect
Hot Water	Soak 48 hrs. in 40°C warm water, check appearance of ink layer and peel off	No defect
Acid	24hrs. in 5% HCI, check appearance of ink layer and peeling off from the substrate	No defect
Alkaline	24 hrs. in 5% NaOH, check appearance and peeling off from the substrate	No defect
Alcohol	Gakushin scrub tester, cotton soaked ethanol, 500g weight, 50 back and forth. Check peeling off	No defect
Scrub	Gakushin scrub tester, with cotton, 500g weight, 500 back and forth, check color fade	No defect
Falling-weight test	JIS K 5600-5-3 DuPont Impulse tester, drop 500g from 50cm height	No defect
Bending	180° Bending tester	No defect
Punching	Punching by press machine	No defect
Accelerated weathering	JIS K-5600-7-7: ISO 11341 Weather meter (Xenon lamp), BP temp. 63+/-3°C∶Rain rate 18 min/120 min、check color fade and peeling off	No defect

\*Test conditions [ERX-971 BLACK] [F-003 Solvent 15%] [80°C 30min]

[T 250] [Substrate:0.5mm Polycarbonate (Sumitomo Bakelite EC100] \*Above resistance test results are measured results in our laboratory and they are not guaranteed values.

\*Information contained in this catalog may change without prior notice.

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