# HR80
# General-Purpose Laminating Ink

## ◆Product Introduction

HR80 adopts alcohol-soluble polyurethane resin as the main structure and is a general-purpose ink suitable for printing on PET, NY, and BOPP films. It is an environmentally friendly composite ink designed to meet the requirements of high-temperature retort, boiling, and light packaging applications.




## ◆Product Features

- ◇ **White Ink Dilution Ratio:** Over 80%, with strong opacity and excellent coloring strength.
- ◇ **Color Ink Performance:** High concentration, good transparency, and excellent transfer performance in light halftone areas.
- ◇ **Applicability:** Single-component design, suitable for light packaging such as fast food and boiling applications.
- ◇ **Environmental Friendliness:** Extremely low solvent residue, meeting food packaging safety standards.

## ◆Notes

◇ 1.Use of Additives:
Blocking should be carefully controlled when printing on double-sided corona-treated films. If necessary, 3–5% of an anti-blocking agent can be added.
To enhance adhesion on BOPP film, 0.3–1% of an adhesion promoter can be added.

◇ 2.Special Applications:
For retort applications, add 3–5% curing agent (excessive amount may reduce stability).
For nylon film printing, add 3–4% curing agent to prevent moisture absorption risk.

◇ 3.Adhesive Compatibility:
For boiling or retort processes, confirm adhesive compatibility.

◇ 4.High-Temperature Retort Test:
For ultra-high temperature retort at 121–135°C, prior testing is required.



## ◆Safety and Storage

- ◇ Storage Conditions: Store in a cool, well-ventilated area, avoid airtight sealing, and keep at 15–30°C.
- ◇ Safety Tips:
  Flammable and volatile; avoid contact with skin and eyes.
  Refer to the Ink Safety and Hygiene Instructions before use.


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## ◆Technical Characteristics

### 1. Main Composition

| Component | Description |
|---|---|
| Resin | Polyurethane Resin |
| Solvent | Alcohols / Ethers / Ketones |
| Additive | Dispersant / Anti-Blocking Agent |
| Pigment | Inorganic / Organic Pigments |

### 2. Applicable Films and Treatment Requirements

| Film Type | Treatment Requirement |
|---|---|
| PET | ⩾50Dynes |
| NY (Nylon) | ⩾52Dynes |
| BOPP | ⩾38Dynes |
| PT Cellophane | Printing Grade |

### 3. Thinner Mixing Ratio (by Weight)

| Solvent Name | Fast Dry | Regular Drying | Slow Drying |
|---|---|---|---|
| Isopropanol | 20% | 20% | 20% |
| Ethyl Acetate | 30% | - | - |
| N-Propanol | 50% | 80% | 70% |
| Propylene Glycol Methyl Ether Acetate | - | - | 10% |

## ◆Applications and Applicable Scope

Complies with the specifications:
○: Usable as-is
△: Refer to Supplementary Table
- : Not Applicable

### 1. Application Classification

| Application | Applicable Lamination Method | PET | NY | BOPP | K Coating | PT |
|---|---|---|---|---|---|---|
| **Dry Food Packaging** | Dry/Solvent-free Lamination | ○ | ○ | ○ | ○ | ○ |
| **Boiled Food Packaging** | Dry/Solvent-free Lamination | ○ | ○ | ○ | ○ | - |
| **Retort Food Packaging** | Dry Lamination | △ | △ | - | - | - |

### 2. Standard Color Codes and Application Range

| Color Code | Light Packaging | NY/CPP(PE) Boiling | PET/CPP Retort | PET/AL/CPP Retort |
|---|---|---|---|---|
| Base Red | ○ | ○ (98°C) | ○ (135°C) | ○ (135°C) |
| Base Yellow | ○ | ○ (98°C) | ○ (135°C) | ○ (135°C) |
| Blue | ○ | ○ (98°C) | ○ (135°C) | ○ (135°C) |
| Black | ○ | ○ (98°C) | ○ (135°C) | ○ (135°C) |
| White | ○ | ○ (98°C) | ○ (135°C) | ○ (135°C) |

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