



RA-8412B Heat Transfer PET Release Film

APPROVAL PAGE

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RA-8412B Heat Transfer PET Release Film

TDS -- Product Application Information

I. Product Features & Applications

● Benefits:

- 1、Excellent heat resistance with minimal deformation, can solve the problems of inaccurate printing positioning and printing accuracy.
- 2、Non-printing side features anti-blocking coating to prevent adhesion during long-distance transportation and pressure, reducing your costs.
- 3、Product tested by third-party institutions: EN71-3 (19 specific element migration tests) and REACH (253 substance tests).
- 4、Hot peel matte type; release layer contains no silicone materials.

● Applications:

- 1、Compatible with various screen printing equipment including roll-to-roll equipment, automatic/semi-automatic machines, and gravure printing.
- 2、Suitable for various screen printing inks: oil-based inks, water-based inks, and adhesive processes.
- 3、Used for puff transfers, glitter transfers, pearl/glossy transfers, and wash care label transfers.

● Advantages:

- 1、Standardized with data-driven quality control; each process follows standard testing with final inspection; edge coding for traceability ensures stable production quality and full traceability.
- 2、Moderate release force suitable for various colors and pattern sizes (e.g., small English letters, wash care labels) without detachment.
- 3、Additional anti-static coating on back side eliminates quality risks caused by static electricity.

● Characteristics:

- 1、Premium BOPET (biaxially oriented polyethylene terephthalate) film substrate with excellent heat resistance and low shrinkage: MD < 2.5%; TD < 0.2% per standard testing.
- 2、Manufactured with globally top-tier high-precision wax materials in cleanroom environment through multi-layer micro-gravure high-precision coating; double-sided matte/matte anti-blocking back coating.

- **Caution:** ① Pay attention to the proportion of isophorone when diluting inks. ② Not suitable for powder



scattering process.

II. Technical Parameters

Item	Method/Equipment	Unit	Standard Value	
Surface Gloss	GB/T 9754/Gloss meter	GU	5.0~10.0	
Back Surface Resistance	ASTM D257 / High Resistance Tester	Ω/\square	$\leq 1.0 \times 10^{10}$	
Back Release Force	FINAT 10	N/inch	2~9	
Surface Release Force	FINAT 10	N/inch	1~6	
Surface Tension	Dyne Pen	dyn/cm	≥ 30	
Friction Coefficient	Friction Coefficient Tester	Dynamic	/	0.3~3.0
		Static	/	0.3~3.0
Heat Transfer Temperature	Industrial Heat Press	$^{\circ}\text{C}$	130~160	
Heat Transfer Time	Industrial Heat Press	s	6~15	
Heat Transfer Pressure	Industrial Heat Press	kgf/cm^2	$2.5\text{kgf}/\text{cm}^2$	
Peel Method	/	/	Hot Peel	

III. Specifications & Packaging

- 1、Product Thickness: 75 μm and 100 μm are standard stock specifications.
- 2、Product Dimensions: 39 cm \times 54 cm, 48 cm \times 64 cm, and 50 cm \times 70 cm are standard stock specifications.
- 3、Standard Packaging: 300 sheets/bag, 600 sheets/carton, 400 sheets/bag, 800 sheets/carton, 500 sheets/bag, 1000 sheets/carton
- 4、Custom specifications available for different thicknesses, dimensions, or packaging.

IV. Storage & Shelf Life

- 1、Store in a cool, dry place away from direct sunlight, high temperature (above 40 $^{\circ}$ C), and high humidity (above 70% RH).
- 2、Avoid contact with sharp objects. Reseal unused portions after opening.
- 3、Shelf life is 12 months under proper packaging and storage conditions. Products beyond shelf life should be fully validated and tested before use.

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V. Precautions

- 1、 Product data is provided for reference only. Users should conduct thorough validation and evaluation of product suitability for intended use (purpose and conditions) prior to application.
- 2、 If different processes, materials or equipment are used beyond the scope of the product, please conduct testing first or consult with our sales team to ensure suitability for intended use.
- 3、 This product disclaimer excludes liability for any incidental or consequential damages.

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