



广州市好印新材料科技有限公司

Guangzhou Haoyin New Material Technology Co., Ltd.

PB50 Series Digital Printable Heat Transfer Vinyl

APPROVAL PAGE

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Prepared by: Li Jiexiang Development Department III Date: 2026-01-03

Prepared by: Li Jiexiang Marketing Department Date: 2026-01-03

Approved by: Xu Qinghai CEO or Authorized Person Date: 2026-01-03



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TDS--Product Application Information

I. Product Features & Applications

- 1、Benefits: Combined with UV printing technology, perfectly solves traditional 3D labels' problems of "high cost for small batches, weak customization, and long production cycles." Suitable for wider application scenarios. Full-color fine patterns + 3D tactile feel, with visual effects superior to traditional 3D labels.
- 2、Characteristics: Material mainly PU and TPU, soft and elastic.
- 3、Advantages: Stronger 3D effect, compatible with UV printing, supports CMYK + White Ink + Varnish full-color output. Can accurately reproduce various pattern details with high color saturation.
- 4、Applications: Suitable for textile fabrics and leather. Alternative to traditional screen-printed labels and drip-on plastic labels. Suitable for laser cutting.
- 5、Limitations: Not suitable for blade cutting. Pay attention to selecting compatible UV inks. Best results achieved with QINGYI UV inks.

II. Technical Parameters

Item	Method/Equipment	Unit	Standard Value
Thickness	Digital Thickness Gauge	μm	480~570
Color Difference (Same Batch)	Handheld Spectrodensitometer	/	$\Delta E < 1.5$
Peel Force	internal	N/inch	0.1~2.5
Clarity	Visual Inspection	/	Clear and complete heat transfer, no burrs, hollows, delamination, or overflow
Abrasion Resistance	Print Ink Rub Tester	%	≥ 80
Wash Resistance	4A Standard, 3 cycles	/	No bubbles, delamination, shrinkage, or cracking; color fading rate $\leq 15\%$

Recommended Heat Press Conditions:

1. Temperature 140°C~160°C, Time 15~20s, Pressure 3.0 kgf/cm². Cover pattern with fabric or release paper/film during transfer.
2. Different equipment may vary; actual testing required for confirmation.

Note: Peel force refers to the separation force between color layer and adhesive film before heat pressing.

III. Specifications & Packaging

Standard size: 45 cm × 25 m. Other custom specifications available upon request.

IV. Storage & Shelf Life

- 1、Store in a cool, dry place away from direct sunlight. Avoid high temperatures (above 40° C) and high humidity

Address: Room.309, No.9 Shenzhou Road, Huangpu District, Guangzhou, Guangdong Province, China.
Hotline: 020-31701916
gzhaoyin.com

Email: info@gzhaoyin.com
Postal Code: 510663



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(above 70% RH).

- 2、 Prevent contact with sharp objects. Reseal unused portions after opening.
- 3、 Shelf life: 12 months under proper packaging and storage conditions. Verify product performance after expiration date before use.

V. Precautions

- 1、 Product data provided for reference only. Users should conduct thorough validation and evaluation of product suitability for specific applications (purpose and conditions) prior to use.
- 2、 Wrinkles, dirt, dust, and moisture on the substrate surface may affect transfer results. Clean and iron the surface before use.
- 3、 This product disclaimer excludes liability for any incidental or consequential damages.

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