



广州市好印新材料科技有限公司

Guangzhou Haoyin New Material Technology Co., Ltd.

QB02 Series PU Heat Transfer Vinyl

APPROVAL PAGE

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TDS--Product Application Information

I. Product Features & Applications

- 1、Benefits: Economical product for low-cost rapid pattern customization, soft and comfortable texture, washable and wear-resistant, environmentally safe and odorless.
- 2、Characteristics: Economy-grade PU heat transfer vinyl with silicone positioning film design, low elasticity. Available in various colors; refer to factory product codes and color charts for details.
- 3、Advantages: Positioning film adopts silicone pressure-sensitive adhesive; pattern has re-tack capability during weeding. Stable and moderate adhesion between positioning film and color layer. Easy to cut (smooth edges without burrs), easy to weed (minimal difference between peel force before heat press and release force after heat press).
- 4、Applications: Primarily used for garments, footwear, headwear, bags, and luggage. Suitable for pure cotton, light-colored synthetic fabrics, and blended materials. Compatible with laser cutting machines, vinyl cutters, or cold blade tools. Vinyl cutters or cold blade tools are suitable for large patterns and fine line patterns (>1mm).
- 5、Limitations: Not suitable for high-elasticity fabrics (swimwear, Lycra), rough surfaces (coarse linen, suede leather), special coatings (waterproof coated fabrics), or dark fabrics containing disperse dyes (without anti-sublimation function).

II. Technical Parameters

| Item | Method/Equipment | Unit | Standard Value | |
|------------------------------------|---|--------------------------------------|-------------------|------|
| Thickness | Digital Thickness Gauge | μm | 80~130 | |
| Color Difference | Handheld Spectrodensitometer | / | $\Delta E \leq 6$ | |
| Abrasion Resistance | Print Ink Rub Tester | % | ≥ 80 | |
| Tensile Properties | Tensile Strength | Electronic Universal Testing Machine | MPa | >10 |
| | Elongation at Break | Electronic Universal Testing Machine | % | >500 |
| | Elastic Modulus | Electronic Universal Testing Machine | MPa | >100 |
| Washing ① | 4A Standard (50°C water, ~60 min/cycle) | / | + | |
| Peel Force(Before Heat Press) | internal | N/inch | 0.5~3.5 | |
| Release Force (After Heat Press) ② | internal | N/inch | 0.2~3.5 | |

Notes:① One 4A wash cycle is equivalent to approximately 10 regular home washes. Three or more 4A wash cycles = (+++); one 4A wash cycle = (+).

② Heat press parameters: Temperature 150~160° C × Time 10~15 s × Pressure 0.3 MPa. Test release force after 24 hours at room temperature following heat transfer to fabric.

III. Specifications & Packaging

61 cm × 25 m. Other custom specifications available upon request.

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IV. Storage & Shelf Life

- 1、 Store in a cool, dry place away from direct sunlight. Avoid high temperatures (above 40° C) and high humidity (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、 For processes, materials, or equipment outside the specified product scope, preliminary testing or consultation with our sales team is recommended to ensure application compatibility.
- 3、 This product disclaimer excludes liability for any incidental or consequential damages.