



QA04 Series Anti-Sublimation PU Heat Transfer Vinyl

APPROVAL PAGE

Document Date: January 3, 2026

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- 1、 Publishing Platform: DingTalk
- 2、 Authorized Access: All staff; Download permission: Department supervisors and above
- 3、 Implementation & Training: Business Department
- 4、 Revision Conditions:
 - A. Process changes; B. Material changes; C. Personnel changes in three-level approval positions
- 5、 Original Document Archive: General Office Archives

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QA04 Series Anti-Sublimation PU Heat Transfer Vinyl

TDS--Product Application Information

I. Product Features & Applications

- 1、 Benefits: Low-cost rapid pattern customization, soft and comfortable texture, washable and wear-resistant, environmentally safe and odorless, with excellent anti-sublimation performance.
- 2、 Characteristics: Anti-sublimation PU heat transfer vinyl with silicone positioning film and anti-stick back coating design, soft and highly elastic. Available in various colors; refer to factory product codes and color charts for details.
- 3、 Advantages: Positioning film adopts silicone pressure-sensitive adhesive; pattern can re-tack 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 dark fabrics and fabrics containing disperse dyes. 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 (>2mm).
- 5、 Limitations: Not suitable for rough surfaces (coarse linen, suede leather), special coatings (low surface energy), or light-colored fabrics.

II. Technical Parameters

Item	Method/Equipment	Unit	Standard Value	
Thickness	Digital Thickness Gauge	μm	130~150	
Color Difference	Handheld Spectrodensitometer	/	$\Delta E \leq 4$	
Abrasion Resistance	Print Ink Rub Tester	%	≥ 80	
Tensile Properties	Tensile Strength	Electronic Universal Testing Machine	MPa	> 8
	Elongation at Break	Electronic Universal Testing Machine	%	> 450
	Elastic Modulus	Electronic Universal Testing Machine	MPa	> 20
Washing ^①	4A Standard (50°C water, ~60 min/cycle)	/	+++	
Release 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:①One 4A wash cycle is equivalent to approximately 10 regular home washes. Three or more 4A wash cycles = (+++); one 4A wash cycle = (+).

②Heat 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

50 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.