



QA12 Series 3D Puff Heat Transfer Vinyl

APPROVAL PAGE

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广州市好印新材料科技有限公司

Guangzhou Haoyin New Material Technology Co., Ltd.

QA12 Series 3D Puff Heat Transfer Vinyl

TDS -- Product Application Information

I. Product Features & Applications

- 1、Benefits: Strong 3D effect, high elasticity, washable, with certain anti-sublimation function for fabrics.
- 2、Characteristics: Effective thickness around 1000 μm (1000), available in multiple colors (single/dual color options).
- 3、Advantages: Adhesive-type positioning film for easy cutting, easy weeding, and re-tack capability.
- 4、Applications: Suitable for textile fabrics and leather. Compatible with laser engraving; adjust laser power according to different thicknesses.
- 5、Limitations: High thickness not suitable for fine line pattern processing.

II. Technical Parameters

Item	Method/Equipment	Unit	Standard Value
Effective Thickness	Digital Thickness Gauge	μm	900~1000
Abrasion Resistance	Print Ink Rub Tester	%	≥ 80
Washing ①	4A Standard (50°C water/60 min/cycle)	/	+++
Color Difference (Same Batch)	Handheld Spectrodensitometer	/	$\Delta E \leq 4$
Tensile Properties	Tensile Strength	MPa	< 5
	Elongation at Break	%	> 600
	Elastic Modulus	MPa	< 5
Release Force (Before Heat Press)	internal	N/inch	0.1~2.5
Peel Force (After Heat Press)		N/inch	0.1~3.0

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 Recommended heat press parameters: Temperature 165~175° C × Time 15~20 s × Pressure 0.3 MPa. Conduct relevant tests after 24 hours at room temperature following heat pressing.

III. Specifications & Packaging

Standard stock 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 (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.

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- 2、 For processes, materials, or equipment outside the specified product scope, preliminary testing or consultation with our sales team is recommended to achieve optimal product performance.
- 3、 This company disclaimer excludes liability for any incidental or consequential damages.

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