



广州市好印新材料科技有限公司

Guangzhou Haoyin New Material Technology Co., Ltd.

QG01 Series PU Pearlized Heat Transfer Vinyl

APPROVAL PAGE

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TDS--Product Application Information

I. Product Features & Applications

- 1、Benefits: Visually refined product that attracts detail-oriented consumers. Suitable for trademark logos, DIY decoration, and mass production. Cost-effective, environmentally safe, and odorless.
- 2、Characteristics: Eco-friendly PU material with silicone positioning film and anti-stick back coating design. Soft and highly elastic texture, durable, washable, and wear-resistant. Pearlized finish with soft, textured luster; glossy mirror effect with high shine. Available in various colors; refer to factory product codes and color charts for details.
- 3、Advantages: Positioning film adopts silicone pressure-sensitive adhesive; 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). Pearlized finish enhances pattern dimensionality; glossy finish provides vibrant colors and eye-catching patterns.
- 4、Applications: Pearlized version recommended for fashion apparel and personalized gifts requiring texture quality; glossy version preferred for outdoor advertising and sports equipment requiring high visibility. Suitable for pure cotton, polyester, blended fabrics, and non-woven materials. Compatible with laser cutting machines, vinyl cutters, or cold blade tools. Vinyl cutters or cold blade tools are suitable for large patterns and moderately fine line patterns (>3mm).
- 5、Limitations: Not suitable for rough surfaces (coarse linen, suede leather), special coatings (low surface energy), or dark fabrics containing disperse dyes (without anti-sublimation function).

II. Technical Parameters

Item	Method/Equipment	Unit	Standard Value	
Thickness	Digital Thickness Gauge	μm	80~140	
Color Difference	Handheld Spectrodensitometer	/	$\Delta E \leq 4$	
Abrasion Resistance	Print Ink Rub Tester	%	≥ 80	
Tensile Properties	Tensile Strength	Electronic Universal Testing Machine	MPa	>5
	Elongation at Break	Electronic Universal Testing Machine	%	>600
	Elastic Modulus	Electronic Universal Testing Machine	MPa	>10
Washing ①	4A Standard (50°C water, ~60 min/cycle)	/	+++	
Peel Force (Before Heat Press)	internal	N/inch	0.1~2.5	
Release Force (After Heat Press) ②	internal	N/inch	0.2~3.0	

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 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

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.