Technical Data Sheet

Ultra-Matte PET Release Film with Soft Touching Feel

1. Description

This product is an ultra-matte, skin-feel, warm/cold peel release film specifically designed for screen-print release processes, with a core positioning of "high-quality texture + multi-scenario adaptability." It combines a delicate ultra-matte finish with stable performance, meeting the needs of fabric printing for apparel, accessories, and various other release process scenarios, providing users with a solution that balances texture, durability, and aesthetics.

2. Key Features And Typical Benefits

1. Prominent texture: Features an ultra-matte surface with a delicate skin-like feel. After heat pressing, it fully retains the original tactile sensation, enhancing the premium quality and comfort of the finished product.
2. Strong process adaptability: Supports both warm-peel and cold-peel operations.
3. Stable performance: Excellent wash durability. Maintains texture and appearance stability after multiple washes, resisting peeling or deformation.
4. Excellent color expression: Accurately renders design colors. The finished product displays bright, vivid colors, enhancing visual appeal.

3. Typical Physical Properties

Size（M)	48*64cm, 50*70cm	Gloss (GU)	4-5
Thickness (μM)	100μM PET + 7-10μM coating	Pressing temperature(℃)	150-165
Machine wash (60° C / 1200 rpm / 1 hr)	20+	Pressing time (S)	10-20
Initial Peel Strength (gf)	500-800	Peel Strength After Aging (60° C/24h) (GF)	500-800
Abrasion and Scratch Resistance Test (2 kg)	20+		

4. Potential Application

Applicable to a variety of textile fabrics. The surface is smooth and soft, similar to a skin-like touch, with stable release performance. It is used for garment labels, custom T-shirts, various logo labels, custom hats, kindergarten name tags, custom patterns, advertising shirts, sports jerseys, athletic wear, backpacks, footwear and apparel, snow jackets, garment printing, ski wear, shoe accessories, etc. Suitable for both dark and light-colored garments, as well as leather goods and luggage products.

5. How To Use

The customer designs the screen printing mesh pattern according to their needs, aligns and attaches the release film with the screen printing pattern to ensure accurate positioning. The mesh count and number of printing passes are determined based on the desired finished thickness. The ink is evenly printed onto the release film surface using a screen printing machine. After the ink dries, adhesive powder is sprinkled or adhesive ink is printed, followed by another drying process. Set the heat press temperature to 150 – 165° C and pressing time to 10 – 20 seconds to transfer the pattern to the substrate. Both warm peel and cold peel are acceptable, with cold peel giving the best result.

6. Patent Status

Nothing contained in this Agreement shall be construed as implying the non-existence of any relevant patent, or constituting a license, inducement, or recommendation to practice any invention covered by any patent without authorization from the patent owner.

7. Product Safety, Handling And Storage

Customers should refer to the latest Material Safety Data Sheets (MSDS) and labels for product safety information, safe handling instructions, personal protective equipment (if necessary), and any special storage conditions required for safety.
(1) Do not collide with sharp objects. When the packaging is not in use, keep it sealed and store it in a dry place away from moisture and high temperatures.

(2) Storage conditions: temperature -5° C to 35° C, humidity 40 – 60%, avoid high temperatures and direct sunlight. Shelf life is one year.

8. Limitations

The customer must evaluate Tiansheng New Material's products and determine for themselves whether they are suitable for use in a specific application.

9. Contact Information

For product prices, availability , or order placement, contact our customer service by visiting http://www.tisvinyl.com For literature and technical assistance.

10. Other Information

(1) This PET release film is a soft product. Slight surface tackiness is normal, and the surfaces should be prevented from sticking to each other.

(2) Control the pressing temperature and time properly. Excessive temperature or prolonged pressing may cause the film to shrink or deform.

(3) Due to the special nature of the product, we recommend against using corrosive detergents, dry cleaning, or bleach. It is best to wash at temperatures below 40° C, with cold water being ideal. Remember to wash on the reverse side to maintain long-lasting, vibrant colors.

(4) After pressing, it is best to wait 12 hours before washing.

(5) These data are provided as typical values, not as product specifications. No warranty, express or implied, is made. The recommended industrial hygiene and safe handling procedures are considered generally applicable. However, each user should review these recommendations in the specific context of their intended use and determine whether they are appropriate.