

Elevate Your Appliance Aesthetics

with T.A.O.'s
comprehensive
printing solutions.

We empower you to achieve breathtaking visual effects and precise color matching on your glass door panels, all while boosting efficiency and minimizing costs.

Issue 19 :
January - March 2024
Quarterly Company
Newsletter

T.A.O. NEWSLETTER



Refrigerators Glass Door Panel Printing

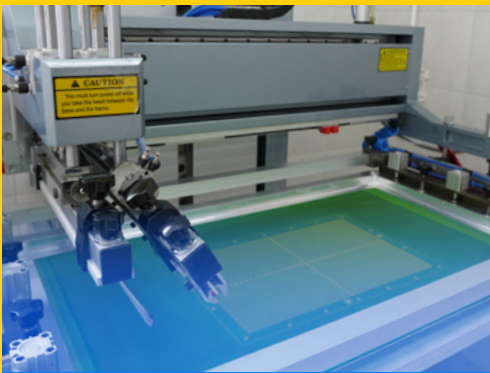
Printing Techniques

1 Screen Printing

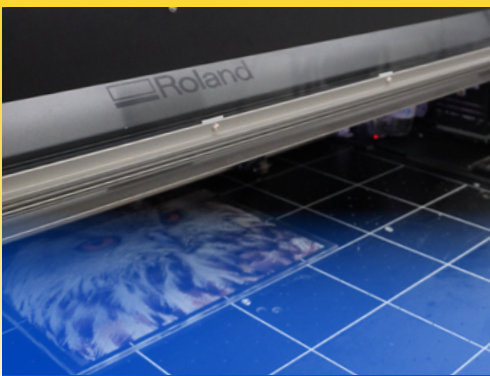
A popular choice due to its affordability and durability, especially for large panels. Cost-effective method, ideal for simple designs, logos, and patterns. Think bold lines and vibrant colors for a classic look.

2 Digital Printing

A more budget-friendly option for temporary or seasonal signage and personal life, but might not withstand the aggressive conditions of industrial settings.



Screen Printing



Digital Printing

Ink Types



1 Solvent-based Ink

- Very good adhesion.
- High water & chemicals resistance.
- Drying is accelerated and improved by higher temperatures.

2 Ceramic Inks

- A high temperature at 500-800 degree C in the curing process is required.
- High heat and scratch-resistant.

UV-curable Inks

- 3 • Using ultraviolet light for quick drying is needed.
- Reduce VOC.
- Reduce energy investment costs from additional post-baking and provide efficient production through high production speeds.
- UV-curable ink still has limitations of chemicals and scratch and abrasion resistance.
- Opacity when compared with other ink types.

Glass Types and Treatments

1 Energy-Efficient Low-E Glass

Some refrigerators incorporate Low-Emissivity glass, which reduces heat transfer, enhancing energy efficiency and contributing to sustainability goals.

2 Safety Measures with Tempered Glass

The prevalent use of tempered glass in refrigerator doors enhances safety, as it undergoes a heat treatment process that strengthens the glass and reduces the risk of shattering.



Photo Credit : [unsplash](#)

T.A.O. Your One-Stop Shop for Glass Door Panel Printing

Why Choose T.A.O.?



Contact T.A.O. today and let our expertise guide you to stunning results!

The experience working with leading entrepreneurs both domestically and abroad. It makes us accumulate various experiences and knowledge to respond to the needs of customers.

In the next issue, we will take readers to a sample case that we have developed. It gives excellent results.

1 Unmatched Quality

We partner with industry leaders like Marabu and Jujo to bring you premium inks for solvent, UV-curable, and ceramic printing, all meeting stringent REACH, RoHS, IKEA Standard MAT-0066, and "Free of aromatic compounds" certifications.



2 Color Matching Mastery

Our cutting-edge color matching services guarantee your designs come to life exactly as you envision them.



3 Special Effects Playground

Ignite your imagination with our diverse array of special pigments, designed to infuse your panels with unparalleled depth and dimension.



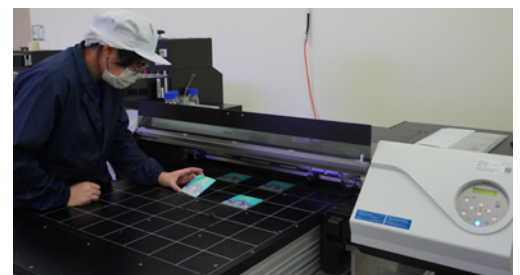
4 Expert Guidance at Your Fingertips

Our team of technical specialists provides unwavering consultation, tailored to your specific needs and challenges.



5 Collaborative Spirit

We believe in working hand-in-hand with our clients to achieve optimal results.



Wound Care Revolution

Optimizing Healing with Advanced Materials

Advancing wound care in the medical industry is crucial for faster healing, reduced pain, and improved patient outcomes.

This newsletter explores the latest innovations in wound dressings, with a focus on the game-changing potential of TPU film and silicone adhesives.

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Wound Care Revolution by TPU Film & Silicone Gel Adhesive



Wound Dressing Helps

- 1 Acute wounds such as surgical wounds, burns, abrasions, and lacerations.
- 2 Chronic wounds such as diabetic wounds, pressure ulcers, and chronic leg ulcers.
- 3 Protect and care for wound healing after surgery.
- 4 Reduces pain when peeling off.

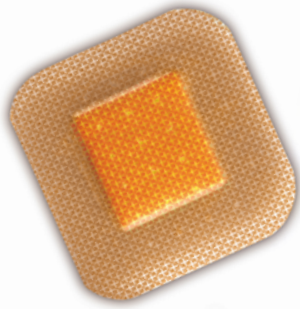
Essential Properties of TPU film for Medical Wound care

- 1 **Biocompatibility** Safe and gentle on skin, minimizing allergy or irritation
- 2 **Moisture balance** Maintaining an optimally moist environment for optimal healing
- 3 **Breathability** Allowing air and water vapor exchange to prevent maceration
- 4 **Adhesion** Securely staying in place while being easy to remove without causing pain
- 5 **Antibacterial Properties** Protecting against infection and promoting healthy healing

Efficiency TPU Film vs. PE Film for Wound Care :



Properties	TPU film	PE film
Moisture vapor transmission rate (MVTR) to maintain wound moisture balance	Higher MVTR	Lower MVTR
Strong and tear-resistance	Higher	Lower
Chemical resistance	High	Limited
Waterproof	Yes	Yes
Protect Bacterial	Higher	Lower
Breathability	Higher	Lower
Skin-friendly	Extremely soft and flexible	Less soft & flexible
Free from plasticizers	Yes	Might have some plasticizers



Properties of each type of glue used to make Wound care



Silicone Adhesive	Acrylic Adhesive
Gentle on skin and Minimizes allergy risk	Can irritate sensitive skin
Adheres well while allowing for reapplication	May leave residue upon removal
May have lower adhesion	Strong adhesion

Choosing the Right Adhesive:

- 1 Skin sensitivity**
opt for silicone for sensitive skin or repeated application needs.
- 2 Adhesion strength**
Consider acrylic for secure fixation on challenging wound surfaces.
- 3 Cost-effectiveness**
Weigh affordability against comfort and ease of use.



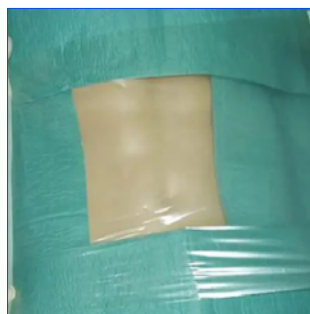
Photo Credit : [Medical Plastic News](#)

T.A.O. Solution

Our company proudly offers cutting-edge wound care solutions. We provide TPU film from COVESTRO, known for its high mechanical strength, skin-friendliness, and FDA approval, ensuring top-notch quality for medical applications. Additionally, our silicone gel (adhesive) from ELKEM guarantees flexibility, water resistance, and skin compatibility, allowing for repeated.



Applications of wound care



Surgical Drape / Incision Film



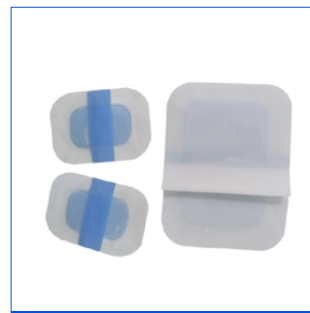
Professional Wound Care



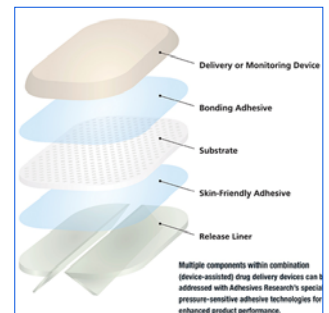
Scar Treatment



NPWT (Negative Pressure Wound Therapy)



Consumer Wound Care



Transdermal

Multiple components within combination (device-assisted) drug delivery devices can be addressed with Adhesives Research's special pressure-sensitive adhesive technologies for enhanced product performance.