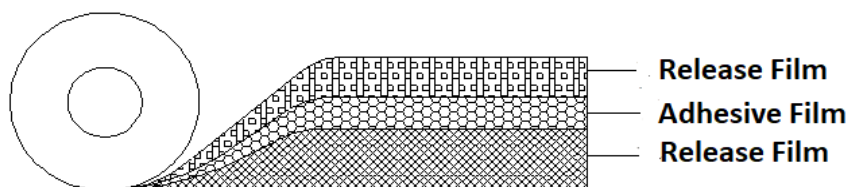


# DBF Adhesive Film

## 1. Product Information

DBF Adhesive Film is a thermosetting double-sided adhesive film made from a blend of aliphatic and aromatic acid esters combined with epoxy resin. It provides excellent adhesion to both metals and a wide range of non-metallic materials. The film has a faint bluish color, contains no carrier substrate, and is protected on both sides with release liners for easy handling and removal.

At room temperature, the film is non-tacky. Bonding is activated by heat, and full curing is achieved through heating and pressing during secondary assembly processes.



## 2. Product Features

- Excellent bonding strength
- High reliability under high-temperature and high-humidity conditions
- Strong resistance to chemicals, with outstanding electrical, reliability, and overall performance
- Exceptional flexibility
- Room-temperature storage
- Compliant with RoHS and halogen-free environmental standards

## 3. Typical Values

No.	Item	Unit	Value	Test Method
1	Thickness	μm	10–50	—
2	Peel Strength	N/mm	≥1.5	—
3	Heat Resistance	°C	300 (short-term)	—
4	Dielectric Constant (10 GHz)	—	1.42	GB/T 36800.2
5	Dissipation Factor (10 GHz)	—	0.003	GB/T 36800.2
6	Surface Resistivity	Ω	2.41E+13	ASTM D257
7	Glass Transition Temperature (Tg)	°C	-31.55	TMA
8	Dielectric Strength	KV/mm	128	ASTM D149
9	Thermal Decomposition (1% wt. loss)	°C	320.25	TGA

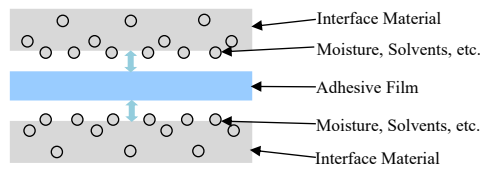
## 4. Application Guidelines

### Film Transfer:

Remove the release liner and transfer the adhesive film onto the substrate at 120–150 °C, ensuring a tight and uniform bond.

**Secondary Assembly:**

Apply heat at 145–200 °C with pressure to achieve initial curing and adhesion. Recommended dwell time: 30–60 seconds.



Once the bonding material absorbs moisture, it becomes sealed after lamination, making it difficult for the moisture to escape.

- ◆ Depending on the size of the substrate and the pattern of the circuit, it is essential to perform a preliminary lamination test. Based on the results, determine whether vent holes or other measures are needed. Ensure that any issues with trapped air or residual bubbles are resolved before proceeding with full-scale use.

**Storage**

Store in a sealed package in a dry, non-corrosive indoor environment with a temperature below 30 °C and relative humidity below 50%. Avoid direct sunlight. The product has a shelf life of 6 months from the date of manufacture.