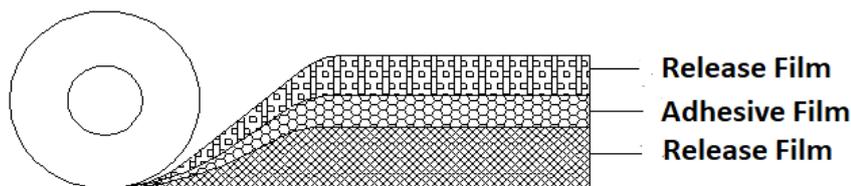


# DH-DBF Thermosetting Double-Sided Adhesive Film

## 1. Product Information

DH-DBF Adhesive Film is a **thermosetting, double-sided adhesive film** formulated 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.

The film is **non-tacky at room temperature**. Bonding is activated by heat, with **full curing achieved through combined heating and pressure during secondary assembly**.



## 2. Product Features

- Excellent bonding strength
- High reliability under high-temperature and high-humidity conditions
- Strong chemical resistance with excellent **electrical and long-term reliability 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 (6.5 GHz)	—	2.575	SJ/T10142-1991
5	Dissipation Factor (6.5 GHz)	—	0.003	SJ/T10142-1991
6	Surface Resistivity	Ω	2.41E+13	ASTM D257
7	Glass Transition Temperature (T <sub>g</sub> , TMA)	°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

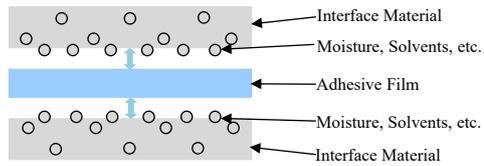
### Film Transfer:

Remove the release liner and laminate the adhesive film onto the substrate at **120–150 °C**, ensuring uniform contact and adhesion.

**Secondary Assembly:**

Apply heat at **120–200 °C under pressure** to achieve initial adhesion and partial curing.

**Final curing:** 150–180 °C for  $\leq 30$  minutes.



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

- ◆ Depending on substrate size and circuit pattern, a preliminary lamination trial is recommended to evaluate the need for vent holes or other air-release measures. Any issues related to trapped air or residual bubbles should be resolved prior to full-scale production.

**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 8 months from the date of manufacture when stored under specified conditions.**