Thermal Release Sheet

REVALPHA NO.3198MS

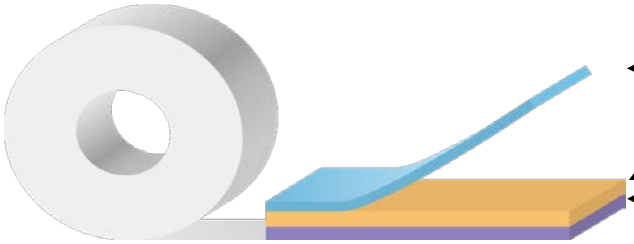
120degC Type

Features

- Adhesive strength becomes almost “zero” by heating and REVALPHA can be removed without damaging substrates.
- Provides a high processing accuracy since substrates are kept in a fixed position.
- Three types (rolls, labelers and sheets) are available.
- Environmentally friendly since no cleaning is required for substrates.

Foaming temperature
200degC
120degC Type
0degC

Structure



* Foaming adhesive can be foamed by rapidly heating to from approx 120 deg C to 150 deg C and easy to release. **[130’C*1min is standard condition]**

Applications

- Temporary fixing during dicing electronic components.
- Temporary fixing to prevent misalignment of the substrates.
- For chip transfer.

Properties

Table 1 General Properties

Item		Unit	NO.3198MS
Total Thickness (does not include the liner thickness)		mm	0.148
** Adhesive strength of foaming adhesive surface	Before foaming	N/20mm	3.0
	After foaming	N/20mm	0.01

** Measurment method:
Apply to a PET film at room temperature (as for an after foaming adhesion, apply after heating at 130 deg C for 1 min).
Peeling speed: 300mm/min Peeling angle: 180 degree

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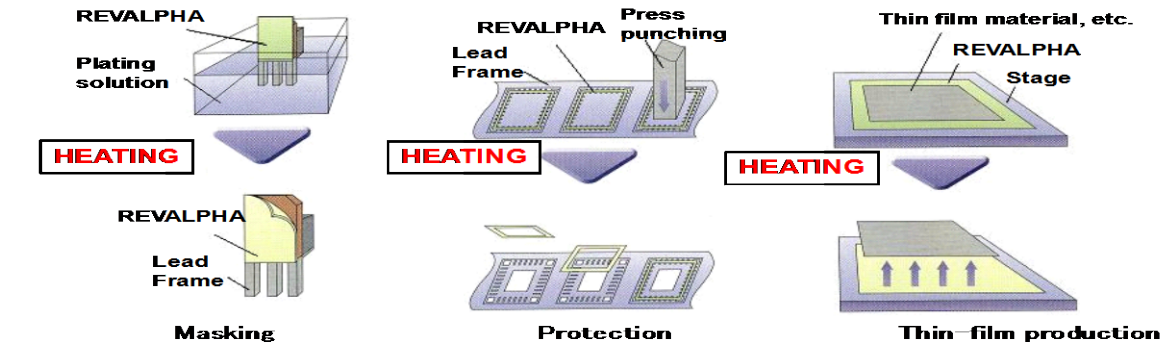

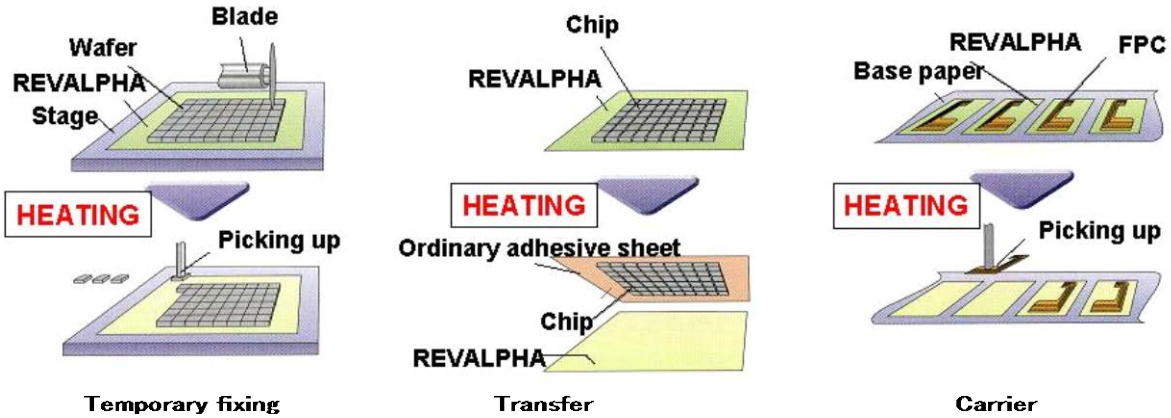

NOTICE

●How to laminate:

・When laminating, do not let air bubbles in. Use a rubber roll or a press to laminate it evenly.

●How to heat up

• An air oven or a hot plate can be used to heat up.

・To make a release process more efficiently, heat the foaming adhesive promptly up to the adequate temperature then stop heating right after foaming. The heating process should be carried out properly.

・If heating is insufficient, the foaming adhesive does not foam fully and the release function may not work. In addition, over heating damages the foaming agents and may cause readhesion.
Please consider following conditions in advance.

1) Size and material of the substrate.
2) Condition and composition of the surface of the substrate.
3) Storage condition after laminating.

●How to clean

・In case some residues remain on the substrates's surface after releasing REVALPHA, please clean them off with acetone or toluene.

●Storage

***Since REVALPHA is affected by heat, it must be stored as follows.**

1) Temperature must not exceed 60 deg C. If it exceeds 60 deg C, the tape performance may be degraded remarkably.
2) In case of being stored for a long period of time (more than one month), please store at lower than 40 degree C, preferably in a dark cool place.