

CAPE

CREATIVE ADVANCED
POLYMER ENGINEERING

Rev: TB-RH-B

TECHNICAL BULLETIN

Description

Rubclean & Elastowet are specially formulated rubber compound for the cleaning and waxing of a contaminated mold. Both Rubclean and Elastowet are designed to withstand the stringent semiconductor requirements that allow superior reliability performance. Rubclean and Elastowet are universal cleaning and waxing compound with good versatility that able to cater cleaning requirements over a wide range of mold design especially on the thermosetting transfer mold at semiconductor packages.

Advantages

- Shorten total cleaning cycle time thus improve productivity
- No lead frame required
- No pre-heating is required
- Cost saving
- Not required cold storage
- Simple and easy cleaning procedure (handling and removal of rubber)

Mold Parameters

Item	Conditions
Clamp pressure	1600 – 1800 psi/ 80 – 120 tons/ 1mm gap between the mold die at 30 – 40 tons
Mold temperature	150 – 185 °C
Cure time	200 – 400 seconds
No of shots	4 - 6 shots Rubclean; 1 - 2 shots Elastowet (additional clean and wax pellet required if applicable)

Application procedure

- 1) Locate Rubclean on mold for the required number of strips. 1 to 3 or more Rubclean strips per mold chase depending on mold cavities dimensions.
- 2) Close the mold to compress Rubclean.
- 3) Remove the cured rubber from mold and continue with Rubclean until the desired mold cleanliness is achieved.
- 4) Repeat step 1 to 3 for 4 to 6 times.
- 5) After cleaning process completed; repeat step 1 to 3 for 1 to 2 times by using Elastowet.
- 6) It is recommended to keep zipper plastic bag closed for the remaining rubber strips to avoid contamination.
- 7) Perform dummy shot

Important

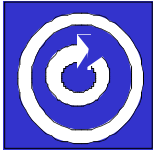
- 1) Possible not cover all the cavities with rubbers, it may cause uncured rubber remain at air trapped area.
- 2) Yellowish residue caused by air trap may cause sticking during buy-off.

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General troubleshooting

Table below shown as the guidelines for troubleshooting in case problems happen during mold cleaning process.

	Incomplete fill cured rubber	Cured rubber sticking	Uncured of rubber
Clamp pressure	Increase	Decrease	Increase
Cure time	NA	Increase	Increase
Mold temperature	NA	Increase	Increase
Rubber placement	Adjust	Adjust	NA
Rubber strip quantity	Increase	Adjust	NA

Size

Dimension (length, width and thickness) of Rubclean and Elastowet can be made according to customer requirements/ cavity size. Dimension of sizes below as reference:

Length: 100 – 300 mm

Width: 8 – 30 mm

Thickness: 3 – 10 mm

Storage

Rubclean & Elastowet do not required for cold storage; Rubclean and Elastowet should be stored in cool, dry conditions, away from sources at well ventilation area.

Shelf life: Expired 9 months from the manufacturing date at 18 – 28°C

Packaging

Both Rubclean and Elastowet are packed on 10kg per carton box. Products sealed with plastic bag with zipper.

Handling precautions

It is recommended to review the Material Safety Data Sheet for Rubclean and Elastowet prior to use. For further information, please contact Cape Technology Sdn. Bhd.

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