



CAPE

CREATIVE ADVANCED
POLYMER ENGINEERING

Rev: TB-RAPH-B

TECHNICAL BULLETIN

RUBCLEAN- α (Alpha)

DESCRIPTION

Rubclean- α is a specially formulated compound for the cleaning of thermosetting transfer mold. Rubclean- α is designed to withstand the stringent Semiconductor requirements that allow superior reliability performance. Rubclean- α is a universal cleaning compound with good versatility that able to cater cleaning requirements over a wide range of semiconductor packages throughout the world.

ADVANTAGES

- ~ Rubclean has excellent cleaning efficiency on mold cavities, air vents, cavities gate, land area and mold surface in a single process.
- ~ Excellent cleaning effectiveness and thus shorten total cleaning cycle time. Generally, less Rubclean cleaning shots and shorter cure time is required as it is specially formulated with fast cure capability to improve productivity.
- ~ No lead frame is required for mold cleaning.
- ~ No preheating is required.
- ~ Excellent releasing property and good mold ability even for micro packages.
- ~ Good pressure withstand up to 100 tons.
- ~ Provide better handling environment with the negligible smoke and smell level.
- ~ Overall productivity gain and cost saving.

APPLICATION PROCEDURES

- ~ 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.
- ~ Clamp the mold to compress Rubclean until it is completely filling to all cavities.
- ~ Over clamping the compound may cause releasing difficulty from mold.
- ~ Suggested compound cure time is depending on mold temperature. For normal molding temperature of 175 +/- 5 °C, the compound cure time required can be from 120 to 300 seconds.
- ~ Remove the cured compound from mold and continue with Rubclean until the desired mold cleanliness is achieved.
- ~ Number of cleaning shots suggested is 3 to 6 shots. However, this will be affected by mold conditions and mold compounds used.
- ~ Over curing Rubclean (more than 10 minutes for 175°C) might create sticking problem to the mold.

HANDLING PRECAUTIONS

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

TYPICAL PROPERTIES

Appearance	White solid in strip form
Specific Gravity	1.1 to 1.3
Dimension	Varies per customers' requirements
Flash Point (°C)	Not applicable
pH	Mild Alkaline
Solubility	Not soluble in water

STORAGE REQUIREMENTS

Storage Condition	Rubclean must be kept at a cool and dry place, with no direct sunlight. Extra exposure of Rubclean to light may cause discoloration. It is recommended to use up Rubclean within 48 hours after the individual packing bag is opened as excessive moisture may affect the excellent performance of Rubclean.
Shelf Life	9 months from manufacturing date
Storage	18 – 28 degree Celsius

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