

TECHNICAL DATA SHEET

Version 3.0

Revision Date 2017/05

Ref. 01U02TDS-TCM

TECORÉ® Rubber Sheet “High-efficiency-Cleaning” C60-H

TECORÉ® C60 series is a group of mold-die cleaning rubber sheets, which are developed for cleaning mold stains (epoxy resin, organic residues) remaining on mold die surface and in deep cavities during transfer molding process of semiconductor device encapsulation. The application of C60 series eliminates the use of dummy lead frames, and reduces customer costs by simplifying cleaning operation with compression molding.

“**High-efficiency-Cleaning**” **C60-H** is the newest developed grade of C60 family, and it significantly improves the cleaning ability for the most challenging objects, which are:

- Deep and narrow mold cavity
- Mirror Cr-plated mold die
- Sticky green epoxy molding compound

C60-H is compatible with a wide range of molding cavity designs, provides excellent cleaning performance and renders high production efficiency for semiconductor manufacturing.

FEATURES

- Ultimate cleaning performance
- 100% fused filler to prevent the molding die surface from mechanical abrasion
- Environmental friendly formulation of water-soluble compositions, and light smell
- Ultimate cleaning for green compounds

1. TYPICAL PROPERTIES

Property	Value
Visual Appearance	White
Specific Gravity	1.02~1.20 g/cm ³
Minimum Torque	0.15~0.85 N•m
Maximum Torque	1.50~4.00 N•m

2. HOW TO USE

Standard Molding Conditions

Mold Surface Temp.	Curing Time	Frequency of Shots
161~175℃	7~8min	4-8 times
176~190℃	5~8min	4-8 times



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***Notes: The ideal curing time varies with different package types and mold die designs.**

****Notes: Please ask the local sales office for the Instruction Manual, and follow the directions in the manual, prior to the use of the product.**

3. SIZE

Available Sizes

* The product is in sheet form, and for easy folding, the sheet is half-cut to 10~20 rubber strips.

** SIZE CODE: The dimension of TECORE rubber product is defined by "SIZE CODE", and the format is:

230 * 15 * 5
(Strip Length)*(Strip Width)*(Strip Thickness)

Standard Sizes	Other Sizes Available		
	Rubber Strip Length	Rubber Strip Width	Thickness
230*10*7 210*10*7 230*15*5	<=300mm	10mm, 15mm	3mm~8mm

4. PACKING

The Rubber Sheets are sealed up, in quantity of 4~8 sheets, isolated by paper, in a bag labeled with zipper seal. PE bag or aluminium-coated plastic bag is adopted according to the different properties of Rubber Sheets. Part number, specification, lot number etc are printed on seal bags.

5. STORAGE & TRANSPORTATION

The users are suggested to keep and use the Rubber Sheets following the recommended conditions as below:

5.1 Keep at temperature not exceeding 5℃, and thaw 18~24 hours before using until product temperature reaches room temperature. And the cold surface will absorb humidity in the air, which may negatively effect the performance of the Rubber Sheets.

5.2 Keep away from sources of heat, such as molding dies, lead-frame preheating panels. The unlimited heat absorption will cause the performance decrease of the Rubber Sheets

5.3 Shelf life: If stored under proper conditions, product retains its performance and properties for 12 months from manufactured day.

5.4 Pot life: 30 days unpacked at room temperature after taking out from cold room.

5.5 Be sure to seal up the bag of the remaining sheets with zipper seal, and store them again in cold room.

5.6 We recommend the product to be transported at or below 5℃. However, in case of domestic transportation (not exceeding 30 days), the normal (non-refrigerator) container/truck is allowable in any season/climate, without any negative effects to shelf life, pot life, or properties.



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DECLARATION OF WORKPLACE ENVIRONMENTAL EFFECTS

The Rubber Sheets are synthetic rubber as the main composition, react with curing agents, vulcanize cross-linking at molding temperature, and compose the three-dimension netlike polymer. The decomposition of curing agents will occur during cross-like vulcanization reaction. The most curing agents for common used rubbers will emit the gas of small molecule with "cumenyl" as decomposition occurring, cumenyl has irritative smell, and may cause operator discomfort.

With awareness of the "green work" environment, the high-grade curing agents are adopted to the Rubber Sheets C-60 and W-80, which are normally used for non-smell pharmacy-grade silicone rubbers. TECORE® Rubber Sheets only decompose to the gas of non-smell small molecules, such as n-butanol, isopropanol, acetone, etc.

Even though no irritative smell is emitted during vulcanization, workplace ventilation system is required yet to exhaust the small-molecule gas. The common ventilation system of molding machines is adequate (recommended wind volume higher than 12m³/min and wind speed higher than 0.5m/s)

Note: Above the technical information and data should be considered representative or typical only and should not be used for specification purposes.

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