

## TECHNICAL DATA SHEET

Version 7.0

Revision Date 2022/12

### TECORÉ® Conditioning Sheet W80-K

**TECORÉ® W80-K** is a -base mold-die releasing agent, which is developed for recovering the releasing ability of mold-die surface, normally after cleaning cycle during transfer molding process of semiconductor device encapsulation with epoxy molding compounds.

W80-K is supplied in sheet form, does not require dummy lead frames, and is able to evenly spread lubricants on mold cavity surface by compression molding.

Formulated with multiple releasing technologies, W80-K is approved compatible with the majority of various epoxy molding compounds, and provides sustained releasing performance.

Utility is optimized when apply W80-K combined with TECORÉ® C-60 cleaning sheet\*.

*(\*Please consult with the local sales office for the technical data of TECORÉ® mold cleaning products)*

#### FEATURES

- Good filling for small cavity
- 100% fused filler to prevent the molding die surface from mechanical abrasion
- Environmental friendly formulation of water-soluble compositions, and light smell
- Exclusive releasing ability for green molding compounds

#### 1. TYPICAL PROPERTIES

Property	Value
Visual Appearance	Gray
Specific Gravity	1.05 g/cm <sup>3</sup>
Minimum Torque	0.20 N•m
Maximum Torque	0.81 N•m

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### 2. HOW TO USE

Standard Molding Conditions

Mold Surface Temp.	Curing Time	Frequency of Shots
150~170°C	7~10 min	1~2 times
170~190°C	5~8 min	1~2 times

**\*Notes:** The ideal curing time may vary 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 10~25 strips.

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

**230 \* 10 \* 7 / W250mm**  
**(Strip Length)\*(Strip Width)\*(Strip Thickness)/Sheet Width**

Standard Sizes	Other Sizes Available		
	Strip Length	Strip Width	Thickness
230*10*7/W250mm 210*10*7/W250mm 230*15*5/W250mm	<=300mm	7mm,10mm,15mm	2mm~10mm

### 4. PACKING

The sheets are sealed up, in quantity of 4~8 sheets, isolated by membrane, in a bag labeled with zipper seal. Part number, specification, lot number etc are printed on seal bags.

### 5. STORAGE

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

5.1 Keep at temperature not exceeding 10°C, 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 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 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.



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5.6 We recommend the product to be transported at or below 10 °C. 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.

### DECLARATION OF WORKPLACE ENVIRONMENTAL EFFECTS

The sheets are synthetic 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 s 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 Sheets C-60 and W-80, which are normally used for non-smell pharmacy-grade silicone rubbers.

TECORÉ® 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 12m<sup>3</sup>/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.

#### TECORÉ SYNCHEM, INC.

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