



Technical Data Sheet

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TERABOND-1020H

Non-Pressure Ag Sinter Paste

- TERABOND-1020H is thermosetting conductive die attach adhesive with high thermal conductivity and high electrical conductivity for Power Semiconductor Package.
- This paste can be used as die adhesive for screen printing and dispensing process.
- TERABOND-1020H can be sintered at low temperature & pressure-less environments and provide excellent reliability.

Characteristics

- Lead Free and zero halogen formulation Stable rheology
- Good dispensing performance
- Low Sintering Temperature & Excellent adhesion on various substrates
- High thermal conductivity & High Die shear strength

Applications

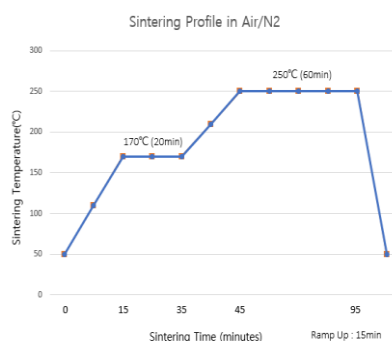
- Power Semiconductor
- Power Module
- High Power LED



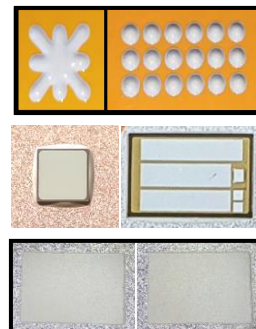
Production Properties

Physical Properties	TERABOND-1020H
Chemical Type	Thermosetting
Fillers	Silver
Color	White Gray
Halogen content	Zero Halogen
Material Properties	
Process Temperature (°C)	170 ~ 250
Viscosity(cps)*	12,000± 3,000
Thixotropic Index(5rpm/50rpm)	3~6
Thermal Conductivity(W/mK)	< 150
Volume Resistivity($\Omega \cdot \text{cm}$)	< 6.0×10^{-6}
Storage Modulus(Gpa@25°C)	< 15
Die shear strength(Kgf @6.4mmx4.4mm)	> 20

*TOKI H type TV-35, Spindle R9.7 at 25°C



Attach Performance



Process parameters can be adjusted depending on application specific requirements.

Application/Process

Process: Dispensing/Screen Printing




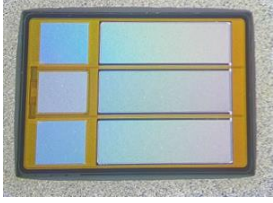
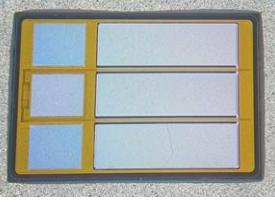
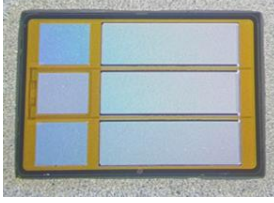
Material Properties

Pot Life (at 25°C)	12 hrs
Shelf Life	6 mths
Surface Sensitivity(after printing)	> 2hr
Residue Cleaning	Not required
Storage Condition	Below -40°C




Notes

- Do not open the syringe or pot before adhesive reaches room temperature to prevent the moisture condensation
- Do not return the used product to the container. We cannot guarantee product property.
- This Paste are package in syringes or pot per customer specification.
- Clean up : Uncured paste may be cleaned from dispenser and surfaces with ETOH, acetone, MEK. Etc.
Always wash and dry thoroughly prior to re-use of the dispenser components.

Printing Performance

Open Time	0hr	1hr	2hr
After Printing			
After Die Attach			

Dispensing Performance

Open Time	0hr	1hr	2hr
After Dispensing			
After Die Attach	