

TARGET BONDING EPOXIES

Applications: These series of MECPB grade of target bonding pastes are available in more than 3 different grades, virtually covering all industrial and research applications, meeting diversified electrical, mechanical, thermodynamical/tribological and environmental specifications. On account of its high purity and consistence in quality, these pastes are the first choice of any research organization and industries dealing in semiconductors, ceramics piezoelectric, optics or sensor/mems related products.

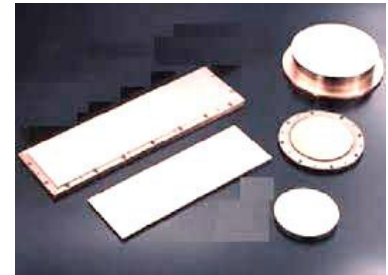
Operating principle : These target bonding organic epoxies are single components. After applying to substrate and target, and applying suitable curing, fine particle of silver oxide and other nitride filler come closer to form dense matrix offering void less thermal conductive passage to Thermal flow.



MECPB300

Mechanical/Electrical Specifications:

1. High flash temperature / Better temperature operating range.
2. High dynamic yield stress/high performance to hard setting.
3. Easy re-mixing / low off state viscosity.
4. Non-abrasive / chemically compatible.
5. High thermal conductivity
6. Negligible expansion with least pinhole formation in bond.
7. Low weight loss during curing.



Bonded target

Properties	Technical specifications	
Product Code	MECPB500	MECPB300
Base [O.M. < 5.0 micron]	O.M.	O.M.
Mixing ratio	Single component	Single
Filler	Silver oxide /boron nitride	Silver Oxide/Boron nitride
CTE unit volume [in/in/0 Fx10-6 (0 F)]	25	20
Specific Heat J/g0C	0.6	0.58
Tenile strength(psi)	540	620

Properties	Technical specifications	
Product Code	MECPB500	MECPB300
Min-Operating temperature 0C	500	300
Curing - duration- 15/30/60 sec [max]-	100 deg.C/10s +cool+300 deg C/ 10 s.x3	100 deg.C/10s +cool+200 deg C/ 10 s.x3
Thermal conductivity (104. W/m2.0C)	15	14
Color [single part]	Light green	
Pot life [minutes]-	15 minutes	
Shelf life	One year if kept in cool	

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