



PROTAVIC[®] BCE 20240

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DEFINITION

PROTAVIC[®] BCE 20240 is a die attach adhesive, conductive, silver loaded, B-stageable epoxy adhesive.

Main features :

- ⇒ Designed for screen printing application (wafer backside coating).
- ⇒ Very good latency of past at room temperature.
- ⇒ Very good latency of B-staged products.
- ⇒ Fat final curing.

PRODUCT DESCRIPTION

Appearance	paste	
Colour	white	
Guaranteed specifications	Standard	Method
Viscosity cone & plate (5 rpm – 25°C)	25000 ± 5000 mPas	NFT 51211
Other informations		
Pot life at 20 ± 2°C	1 month	25% viscosity increase
Density	3.3	
Thixotropic index	3	Viscosity at 0.5 rpm/ Viscosity at 5 rpm

INSTRUCTIONS OF USE

Before use, **PROTAVIC[®] BCE 20240** has to be homogenized by stirring slowly with a stapula in its original container, or by rolling the container for 2 hours at a low speed (50 to 150 rpm).

Step 1 : application

- Screen printing application.

Step 2 : B staging

- B staging
90°C 0.5h
B staging temperature should be in the range 70°C – 100°C.
Solvent removal : use ventilated equipment.
- B staged life : 6 months at room temperature.

Step 3 : die bounding

- Die attach
 - Temperature : from 100°C to 110°C.
 - Time : from 1s to 10s.
 - Applied strength : 100N/cm².
- Typical B staged die shear stress 150 N/cm².

Step 4 : curing

Curing : 180°C 30 mn.

CURED PROPERTIES

PROPERTY	METHODS	TYPICAL VALUES
Coefficient of thermal expansion	TMA 1	50 ppm/K below Tg 240 ppm/K above Tg
Glass transition temperature	TMA 1	65°C
Hardness Shore D	NFT 51109	84
Die shear stress at 25°C	2x2 mm ² Silicon dies on Ag plated Cu frame	180 daN/cm ²

Values in this table are typical and do not constitute a specification. User has to adjust process conditions for its own particular application of the **PROTAVIC® BCE 20240**.

STORAGE

In its hermetically sealed container, protected at temperature below 0°C.

It is necessary to store the product in its original sealed container in order to avoid the loss of solvent by evaporation.

PACKAGING.

The **PROTAVIC® BCE 20240** is supplied in 1500g plastic pots.