PROTAVIC® PNE 30252

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DEFINITION

PROTAVIC® PNE 30252 is a dam resin with high viscosity and thixotropy designed for chip encapsulation.

PRODUCT DESCRIPTION

Appearance	Paste
Odour	Slight
Colour	Black

Guaranteed specification	**Standard**	**Method**
Viscosity CP51 at 25°C and 2 rpm	105 000 ± 15 000 mPa.s	NFT 51211

Other informations	**Typical Values**	**Methods**
Thixotropic Index (0.2 / 2 rpm)	3.7	NFT 51211
Density	1.76 approx.	NFT 51201
Filler particle size	< 100 µm	ISO 1524
Filler content	72 % typical	TGA 1
Work life at 20°C (+25% viscosity increase)	1 day	NFT 51211
Pot life at 20°C (+100% viscosity increase)	> 2 days	NFT 51211

APPLICATION PROPERTIES

The rheological behaviour of **PROTAVIC® PNE 30252** is suited for dam application. It is strongly recommended to use **PROTAVIC® PNE 30252** (dam) with **PROTAVIC® PNE 30270** (fill). Both products are very similar in composition, thus they are chemically compatible and can be co-cured after chip encapsulation.

After curing, **PROTAVIC® PNE 30252** exhibits good adhesion on many substrates such as glass fiber epoxy.

After curing, **PROTAVIC® PNE 30252** provides good environmental and mechanical protection to chip.

USING PROTAVIC® PNE 30252

1 - Application process and rheological properties

PROTAVIC® PNE 30252 should be protected from moisture before use.

PROTAVIC® PNE 30252 can be applied with a micro-dispenser.
The rheological behaviour of **PROTAVIC® PNE 30252** provides a geometrically stable dam after dispensing and during curing cycle.

2 - Cure schedule

PROTAVIC® PNE 30252 cures at moderate temperature. Typical curing cycle is 20 minutes at 150°C.

TYPICAL PROPERTIES OF CURED PROTAVIC® PNE 30252

Properties	Typical Values	Methods
Shore D hardness	90 approx.	NFT 51109
Glass transition temperature	140 °C approx.	TMA 1
Coefficient of thermal expansion from 40 to 120°C	24 x 10^{-6} /°C	TMA 1
Decomposition temperature	> 400 °C	TGA 1
Water absorption by water immersion 24h at RT	0.1 %	R 10-05

STORAGE CONDITIONS

PROTAVIC® PNE 30252 must be stored in original sealed container protected from moisture at temperature below -20°C to get a maximum period of storage (3 months).
Usual packaging: syringes, other packaging on demand.

PRECAUTIONS OF USE

Refer to enclosed safety data sheet.

DISCLAIMER

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