

LINQBOND™ PM-4911



Low stress electronic packaging adhesive

- Low stress silicone potting gel
- Low viscosity, good leveling
- Excellent long term temperature resistance

LINQBOND™ PM-4911 is a two-component, low-stress transparent packaging adhesive. When the two components are mixed in a 1:1 ratio (by volume), they cure into a soft silicone gel. This gel offers buffering, shock absorption, insulation, waterproofing, and moisture-proof functions for electronic components. With a very low modulus, it generates minimal internal stress and exhibits robust resistance to cold and heat shock. The material also demonstrates excellent adhesion to various surfaces.

Premixed properties

Property	Part A	Part B
Appearance (Visual inspection)	Transparent	Transparent
Density (g/cm ³)	0.92 - 1.02	0.92 - 1.02
Viscosity (cP)	400 - 500	250 - 350
Mixing ratio (volume)	1	1
Floor life at 25 °C (h)	2	

Cured properties

Property	Value	Unit
Volume resistivity	1.0×10^{14}	$\Omega \cdot \text{cm}$
Breakdown Voltage	18	kV/mm
Cone penetration (0.1mm, ¼ cone)	60–70	–

Applications

- IGBT modules
- Suitable for all kinds of electronic components with insulation protection and isolation of external pollutants;
- Protection of precision components and electronic equipment
- Various display potting protection

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Curing Conditions:

- Room temperature curing: 12 h
- Heat curing at 100 °C for 30–60 mins

These conditions are provided as a reference only. Please determine the curing conditions based on the specific requirements of the product.

Precautions:

1. Maintain a clean and ventilated workplace, using extraction trunks when necessary.
2. Wear appropriate protective equipment and minimize direct contact with the human body. Refer to the Material Safety Data Sheet (SDS) before use.

Please note that the provided information is based on available data and typical conditions. For specific applications and detailed test results, refer to the actual test data and conduct appropriate certifications.

Storage and Handling

Store in a ventilated, dry, and clean environment below 25 °C. Keep away from fire and heat sources. It is strictly forbidden to store in outdoor environments. Shelf life can be extended by using cold storage.

Shelf life is 12 months if kept under recommended storage conditions.