

LINQBOND™ PM-PU211



Two-component Polyurethane Potting Material

- Electrically insulating
- Excellent adhesion to different substrates
- Void free casting

LINQBOND™ PM-PU211 is a two-component flame retardant polyurethane material engineered for wide applications such as bonding of pre-treated materials, potting and encapsulation. **PM-PU211** system is composed of naturally occurring hydroxyl resin and isocyanate-based hardener which exhibits properties of rigid elastomer upon curing.

LINQBOND™ PM-PU211 passed HWI, HAI AND CTI tests with PLC 0 rating and relative thermal index (RTI) value of >105°C. Additionally, with a UL 94 V-0 flammability rating and Class B insulation, PM-PU211 guarantees strong performance and outstanding reliability. This product is deliberately formulated without the inclusion of substances prohibited by the European Union RoHS and REACH. LINQBOND™ PM-PU211 seamlessly integrates into your projects, ensuring a smooth and reliable package.

Premixed properties

Property	Part A	Part B
Appearance	Black viscous liquid	Yellowish brown liquid
Viscosity at 30 °C	2210 $\pm$ 345 cP	225 $\pm$ 75 cP
Density	1.5 – 1.6 g/cm ³	1.20 – 1.24 g/cm ³
Shelf life	6 months	12 months

Mixed properties

Property	Value	Unit
Mixing ratio by weight	100:20	–
Mixed Viscosity at 30°C	1200 $\pm$ 100	cP
Pot life at 30°C	35 – 50	min
Initial Curing Time at 25°C	25 – 30	min
Full Curing Time at 25°C	24	h
Application Temperature	25 – 40	°C

Cured properties

Property	Value	Unit
Glass Transition Temperature	35	°C
Thermal Conductivity	0.6	W/m·K
Relative Thermal Index	>105	°C
Temperature Working Range	40 – 130	°C

Europe

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Cured properties

Property	Value	Unit
Dielectric Strength	>30	kV/mm
Permittivity at 50 Hz	3.6	F/m
Shore Hardness	65 $\pm$ 5	Shore D
Tensile Strength	5.6	MPa
Moisture Absorption	0.35	%

Processing Instructions

1. Before mixing, stir both Part A and Part B to homogenize.
2. Mix components A and B according to the specified weight ratio. Stir thoroughly to ensure uniformity while preventing air from introduced into the mixture. Ensure contamination is avoided.
3. To ensure complete mixing of both parts, machine mixing and dispensing are recommended. Static and dynamic mixer can also be used for mixing.
4. Degas the mixture to remove the bubbles for about 10 minutes. Do not fill the container more than half full to prevent overflowing during degassing.
5. Gradually pour the mixed compound into the device being potted.
6. Allow the potted workpiece cure at 25°C until the surface is dry. Full curing typically occurs within 24 hours. The curing process is influenced by temperature variations; generally, higher temperatures result in faster curing, while lower temperatures lead to slower curing.

Precautions

1. Use the mixture promptly after combining components A and B to prevent a significant increase in viscosity.
2. If the components have been stored for an extended period and exhibit precipitation or stratification, they should be thoroughly mixed before use.

Packaging

Part A is available in 30 kg open top plastic bucket. Part B is available in 250 kg metal barrels or 40 and 24 kg plastic cans.

Storage and Handling

Store in a ventilated, dry, and clean environment at 25°C–40°C Keep away from fire and heat sources. It is strictly forbidden to store in outdoor environments. At proper storage conditions, Part A has a shelf life of 6 months and Part B has a shelf life of 12 months.

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 certification.

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