

LINQBOND™ PM-PU111



Two-component Polyurethane Potting Material

- Low shrinkage volume
- High flowability
- Void free casting

LINQBOND™ PM-PU111 is a two-component low viscous elastomeric polyurethane material engineered for wide applications of potting and encapsulation. **PM-PU111** is a soft flexible, abrasion resistant material, offering excellent fast curing and low exothermic reaction.

With its excellent flowability during application and minimal bubble formation upon curing, LINQBOND™ PM-PU111 seamlessly integrates into your projects, ensuring a smooth and reliable finish. PM-PU111 is ideal for encapsulation of power cable joints, capacitors, and other electronic component potting.

Premixed properties

Property	Part A	Part B
Appearance	Black	Clear Brown
Viscosity @30 °C	4250±750 cP	200±50 cP
Density	1.25–1.45 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 @30°C	2500±500	cP
Pot life @25°C	35–50	min
Gel time @ 25°C	50–65	min
Curing Time @25°C	96–120	h

Cured properties

Property	Value	Unit
Shore Hardness	85±5	Shore A
Tensile Strength	3.5±0.5	MPa
Elongation at break	30±10	%
Dielectric Strength	18–20	kV/mm
Volume Resistivity	1.0×10 ¹⁴	Ω·cm

Europe

Industrieweg 15E,
1566JN Assendelft
The Netherlands
Phone: +31 (20) 893 2224
Email: info@caplinq.com

Canada

80 Sirocco Crescent
Ottawa ON, K2S 2C9
Canada
Phone: +1 (613) 482-2215
Email: info@caplinq.com



North America

36927 Schoolcraft Rd
Livonia, MI 48150
United states
Phone: +1 (313) 558-8243
Email: info@caplinq.com

South East Asia

S-08-07 Persiaran Triangle
B Lepas, Penang 11900
Malaysia
Phone: +60(12)4302223
Email: info@caplinq.com

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 25 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 certifications

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