

Two-component Polyurethane Potting Material

- Low-stress potting material
- Excellent seismic and voltage resistance
- Minimal bubble formation during curing

LINQBOND™ PM-1221 is a two-component polyurethane potting material engineered for low-stress applications. It offers good insulating properties and exceptional high-temperature, seismic, and voltage resistance. With its excellent fluidity during application and minimal bubble formation upon curing, LINQBOND™ PM-1221 seamlessly integrates into your projects, ensuring a smooth and reliable finish.

LINQBOND™ PM-1221 is the ideal choice for casting bonding, and sealing electronic components operating in challenging environments such as high pressure, high frequency, humidity, and heat. It is perfectly suited for precision arresters, various transformers, filters, control boards, and igniters.

Premixed properties

Property	Part A	Part B
Appearance	Grayish Liquid	Light Yellow Liquid
Viscosity at 25 °C	6000–9000 cP	300–400 cP
Density	1.10–1.20 g/cm ³	1.00–1.10 g/cm ³
Shelf life	183 days	183 days

Mixed properties

Property	Value	Unit
Mixing ratio	5:1	–
Viscosity after Mixing	3000–5000	cP
Pot Life	<45	min
Initial Curing Time	5–7	h
Full Curing Time	36	h

Cured properties

Property	Value	Unit
Shore Hardness	70–100	Shore A
Linear Shrinkage Rate	0.3	%
Shear Strength	≥2300	kPa
Operating Temperature	–60 to 150	°C
Thermal Conductivity	≥0.6	W/m · K
Dielectric Strength	≥25	kV/mm
Volume Resistance	1.0×10 ¹⁵	Ω · cm
Specific Gravity	1.5–1.7	–

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. Mix component A and B according to specified ratio. Stir thoroughly to ensure uniformity while preventing air to be introduced into the mixture.
2. Degas the mixture to remove the bubbles for about 5 minutes. Do not fill the container more than half full to prevent overflowing during degassing.
3. Gradually pour the mixed compound into the device being potted. If the ambient temperature is around 5 °C, preheat components A and B to around 15 °C.
4. Allow the potted workpiece cure at room temperature 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. Component B is prone to crystallization at low temperatures; therefore, it should be stored in a warmer environment to melt prior to use, ensuring product performance remains unaffected.

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 and 50% RH. Keep away from fire and heat sources. It is strictly forbidden to store in outdoor environments. At proper storage conditions, Part A and Part B has a shelf life of 6 months. Shelf life can be extended by using cold storage.

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