

LINQBOND™ PM-PU514



Two-component Polyurethane Potting Material

- Low Viscosity
- Excellent Thermal Conductivity
- Wide Temperature Range

LINQBOND™ PM-PU514 is a high-performance, two-component polyurethane system designed specifically for capacitor potting and filter sealing applications. This versatile product is ideal for use in PCB potting, HEPA filter sealing, and cable jointing, offering exceptional ease of processing. With its low viscosity and excellent thermal conductivity, PM-PU514 ensures reliable performance and durability in demanding environments.

LINQBOND™ PM-PU514 achieves full curing within 10–12 hours at 35°C. Its thermal conductivity >0.8 W/m·K, and wide temperature working range of -60 to +135°C make it a robust solution for various industrial applications. Additionally, with a UL 94 V-0 flammability rating guarantees strong performance and outstanding reliability.

Premixed properties

Property	Part A	Part B
Appearance	Ivory colored liquid	Brownish yellow liquid
Viscosity at 30 °C	4000 $\pm$ 1000 cP	200 $\pm$ 50 cP
Density	1.40 – 1.50 g/cm ³	1.20 – 1.24 g/cm ³
Shelf Life at 30 °C	6 months	12 months

Mixed properties

Property	Value	Unit
Appearance	Off white color	–
Mixing Ratio by weight	100:25	–
Mixed Viscosity at 30°C	2950 $\pm$ 550	cP
Mixed Density	1.50 – 1.70	g/cc
Pot Life at 35°C	25 – 30	min
Gel Time at 35°C	30 – 45	min
Initial Curing Time at 35°C	3 – 5	h
Full Curing Time at 35°C	10 – 12	h

Cured properties

Property	Value	Unit
Shore Hardness	65 $\pm$ 5	Shore A
Thermal Conductivity	0.75 $\pm$ 0.05	W/m·K
Temperature Working Range	-60 to +135	°C
Flammability Rating	V-0 at 3 mm	UL94

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

Cured properties

Property	Value	Unit
Volume Resistivity at 23°C	$>1 \times 10^{12}$	$\Omega \cdot \text{cm}$
Dielectric Strength at 23°C	>18	kV/mm
Moisture Absorption	<0.3	%
Tensile Strength	5.6	MPa
Elongation	>40	%

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 under vacuum 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 35°C until the surface is dry. Full curing typically occurs within 10–12 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

Both Part A and Part B are available in 30 kg open top plastic buckets.

Storage and Handling

Store in a ventilated, dry, and clean environment at 20°C–40°C Keep away from fire and heat sources. It is strictly forbidden to store in outdoor environments and beyond the recommended storage temperature. 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.

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
+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