

LINQSOL BCP-3502



Medium Voltage Busbar Coating Powder

- Black, red halogen-free epoxy coating powder
- Flexible use for low and medium voltage systems
- High heat resistance (RTI 130 °C) with UL94 V-0 rating

LINQSOL BCP-3502 is a halogen-free epoxy powder coating designed for electrical insulation in busbar systems. It builds up quickly and delivers excellent coating results across a wide thickness range (0.1–2.0 mm), making it suitable for both low-voltage (600 V) and medium-voltage (up to 38 kV) applications. It can be applied using either electrostatic spray or fluidized bed methods.

LINQSOL BCP-3502 meets the UL 746B Relative Thermal Index (RTI) of 130 °C. It combines outstanding dielectric properties with excellent mechanical durability, ensuring reliable performance under elevated temperature conditions. Its superior dielectric strength and flame-retardant rating (UL94 V0) provide enhanced safety and longevity in demanding electrical environments.

Uncured Powder Specifications

Property	Value	Unit
Physical Form	Powder	–
Gel Time at 150 °C	120–350	s
Hot Plate Flow at 150 °C	18–36	mm
Softening Point	75–90	°C
Particle Size Distribution <i>D10/ D50/ D90</i> % >100 mesh	18–25/ 45–60/ 90–130 <0.1	µm %

Cured Powder Properties

Property	Value	Unit
Mechanical and Physical Properties		
Hardness	80	Shore A
Water Absorption <i>after soaking, 8 h</i>	0.3	%
Electrical Properties		
Dielectric Constant at 1 mHz	>6	–
Dielectric Strength	45	kV/mm
Flammability & Thermal Stability		
UL 94 Rating	V0	–
RTI Rating	130	°C

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Recommended Curing Conditions

Parameter	Value	Unit
Preheat Temperature	150–180 °C	°C
Preheat Duration	5–12	s
Curing Temperature	180	°C
Curing Duration at 180 °C	45–55	min

Precautions for Use

1. Minor clumping may occur after transport due to pressure in the packaging. Before application, loosen the powder by shaking or passing it through a sieve to restore free flow.
2. To avoid moisture uptake, reseal any remaining material immediately after use.

Storage and Handling

Store in a ventilated, dry, and clean environment below 25 °C. Keep away from fire and heat sources. Outdoor storage is strictly prohibited. The shelf life varies with storage temperature:

- 12 months when stored at $\leq 10\text{ °C}$
- 6 months when stored at $\leq 20\text{ °C}$
- 3 months when stored at $\leq 30\text{ °C}$

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