

LINQSOL™ EMC-G135

Black epoxy molding compound



- Green molding compound
- Low cost thermally conductive molding compound
- Designed for rectifier bridges and SMX packages

LINQSOL™ EMC-G135 is a green epoxy molding compound specifically developed for rectifier bridges (GBU, KBJ, GBS and etc.) and SMX packages. It offers good moldability and low modulus to meeting low-stress requirements. With a thermal conductivity of $\sim 1.7\text{W/m}\cdot\text{K}$, it satisfies the heat dissipation required by high performing packages.

LINQSOL™ EMC-G135 guarantees strong performance and outstanding reliability. This product is deliberately formulated without the inclusion of substances prohibited by the European Union RoHS and REACH. Overall, **LINQSOL™ EMC-G135** seamlessly integrates advanced material properties, safety compliance, and superior performance to deliver a reliable solution for semiconductor device encapsulation.

Cured properties

Property	Value	Unit
General Properties		
Filler Content	76.5	%
Filler sieving size	180	μm
Specific gravity	2.00	–
Spiral flow at 175°C	88	cm
Bleed Length at 175°C	≤ 2.0	mm
Chemical Properties		
Ion content		
Chloride (Cl^-) concentration	9	ppm
Sodium (Na^+) concentration	4	ppm
Water absorption (PCT 24hr)	0.45	%
pH of extract	5	–
Electrical conductivity of extract	34	$\mu\text{S}\cdot\text{cm}^{-1}$
Electrical Properties		
Dielectric constant at 1MHz	4.1	–
Dissipation factor at 1MHz	0.008	–
Volume resistivity at 25°C	6×10^{15}	$\Omega\cdot\text{cm}$
Mechanical Properties		
Flexural strength	145	MPa
Flexural modulus	16	GPa

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Thermal Properties		
Glass transition temperature	160	°C
Coefficient of thermal expansion, α_1	25	ppm/°C
Coefficient of thermal expansion, α_2	75	ppm/°C
Gel time at 175°C	25	s
Thermal conductivity	1.7	W/mK
Flammability rating	V-0	UL-94

The technical data presented above is intended for reference purposes only. Actual performance may vary based on specific applications and conditions. Users are advised to conduct their own testing and evaluation to ensure compatibility with their specific requirements.

Recommended mold parameters

Parameter	Value	Unit
Molding temperature	170–190	°C
Transfer pressure	40–70	kg _f /cm ²
Transfer time	17–25	sec
Cure time at 175°C	120–150	sec
Post mold cure time at 175°C	6–8	h

To achieve the best results, test the recommended conditions on the mold. Users should conduct their own testing to ensure it meets their specific needs and application.

Processing Instructions

- Before use, let **LINQSOL EMC-G135** reach room temperature for 24 hours. Keep the bag unopened and stored in a dry location with a relative humidity of $\leq 50\%$ during thawing to prevent moisture contamination.
- Use the materials within 72 hours after removing the container from cold storage.

Storage and Handling

LINQSOL EMC-G135 is available in pressed pellets in a wide range of sizes to meet specific customer needs. To ensure product integrity, keep it away from oxidizing materials. For long-term storage, maintain a cold environment. The shelf life at 5 °C is 183 days.

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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