

# LINQSOL™ EMC-G833R



## Black epoxy molding compound

- Green epoxy molding compound
- Designed for Quad Flat No Leads(QFN) and Quad Flat (QFP) packages
- Excellent reliability performance, MSL 1 Capable

**LINQSOL™ EMC-G833R** is a green epoxy molding compound specifically developed for the encapsulation of Quad Flat No Leads(QFN), Quad Flat (QFP) packages and other surface mount packages. Its wide gel time at provides better processing window required for QFN and QFP molding. **LINQSOL™ EMC-G833R** has high spiral flow that meets higher flowability requirements. Additionally, with a UL 94 V-0 flammability rating and ultra low water absorption, **EMC-G833R** guarantees excellent 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-G833R** seamlessly integrates advanced material properties, safety compliance, and superior performance to deliver a reliable solution for semiconductor device encapsulation.

### Cured properties

Property	Unit	Value
<b>General Properties</b>		
Color	–	Black
Filler content	%	88
Filler sieving size	µm	75
Specific gravity	–	2.0
Spiral flow at 175°C	cm	150
<b>Chemical Properties</b>		
Ion content		
Chloride (Cl <sup>-</sup> ) concentration	ppm	5
Sodium (Na <sup>+</sup> ) concentration	ppm	5
Moisture absorption at PCT24h	%	0.28
pH of extract	–	5.0
Electrical conductivity of extract	µS · cm <sup>-1</sup>	30
<b>Mechanical Properties</b>		
Flexural strength (25°C/260°C)	MPa	162/18
Flexural modulus (25°C/260°C)	GPa	24/18

#### 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

Property	Unit	Value
<b>Thermal Properties</b>		
Glass transition temperature	°C	118
Coefficient of thermal expansion, $\alpha_1$	ppm/°C	10
Coefficient of thermal expansion, $\alpha_2$	ppm/°C	36
Mold shrinkage	%	0.15
Gel time at 175°C	sec	52
Flammability	UL-94	V-0

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

Parameters	Unit	Value
Molding temperature	°C	170–180
Transfer pressure	kg/cm <sup>2</sup>	70–150
Transfer time	sec	8–25
Cure time at 175°C	sec	100–180
Post mold cure time at 175°C	h	4–8

\* Above values can be used for reference. Mold parameters can vary based on actual molding process conditions.

### Processing Instructions

- Before use, let **LINQSOL™ EMC-G833R** reach room temperature (23°C ±5) for 16 hours. Keep the bag unopened and stored in a dry location with a relative humidity of ≤50% during thawing to prevent moisture contamination.
- Use the materials within 24 hours after removing the container from cold storage.

### Storage and Handling

**LINQSOL™ EMC-G833R** 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 when stored below 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.

#### 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