

OPTOLINQ PM-1212



Two-part thermal-resistant silicone potting

- High optical transparency
- Excellent UV and thermal resistance
- Excellent adhesion to different materials

OPTOLINQ PM-1212 is a two-part, high-performance silicone potting compound designed for demanding optoelectronic applications. With excellent thermal resistance and high optical transparency, it provides reliable encapsulation for a variety of high-power LED modules. Its superior UV and thermal stability ensures long-term durability.

PM-1212 exhibits excellent adhesion to a wide range of materials and is suitable for diverse package configurations requiring good shape control. This material is optimized for high-power applications, including automotive lighting and high-power backlighting systems. It is an ideal choice for industries seeking reliability, peak performance, and processability.

Premixed properties

Property	Part A	Part B
Appearance	Transparent	Transparent
Viscosity	200 cP	1300 cP
Shelf life	183 days	183 days

Mixed properties

Property	Value	Unit
Mixing ratio	1:10	–
Viscosity	1100	cP
Refractive index	1.41	–
Pot Life at 25 °C	5	hours

Cured properties

Property	Value	Unit
Hardness	49	Shore A
Elongation at break	45	%
Transmittance at 450 nm Sample thickness = 2 mm	>86	%

Typical properties were measured at 25 °C.

The data and information provided in this datasheet are intended for informational purposes only and may not be considered as representative of standard values. Users are advised to verify specific requirements and conduct independent testing, as needed, to ensure compatibility and performance in their unique applications.

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Processing Instructions:

- Mix Parts A and B in a 1:10 weight ratio. Ensure that the mixture is uniform and free from streaks or unevenness.
- Defoam the mixture under vacuum.
- Typical curing conditions: First cure at 60-80°C for 1 hour, followed by post cure at 150°C for 3h.

Precautions:

1. Addition-cure materials may be susceptible to inhibition by certain substances, including organotin and other organometallic compounds, silicone rubber with organotin catalyst, sulfur-containing materials such as polysulfones, amines, urethanes, amine-containing materials, unsaturated hydrocarbon plasticizers, and some solder flux residues. Always exercise caution and conduct thorough compatibility testing when encountering materials or chemicals of concern in your specific application to prevent potential curing issues.
2. Avoid skin and eye contact. In case of contact, rinse thoroughly with soap (for skin) or clean water (for eyes), and seek medical attention if needed.
3. Maintain a clean and ventilated workplace, using extraction trunks when necessary.
4. Wear appropriate protective equipment and minimize direct contact with the human body. Refer to the Safety Data Sheet (SDS) before use.

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.

Cleaning

Uncured silicone can be easily removed using acetone or xylene. Polar solvents, including water and alcohols, are not recommended for cleaning.

Storage and Handling

Store in a ventilated, dry, and clean environment below 25°C. Do not allow moisture to come into contact with these materials. Containers should always remain tightly sealed. For partially filled containers, it is recommended to purge them with dry air or inert gases like nitrogen to maintain product integrity. At proper storage conditions, Part A and B have a shelf life of 6 months.

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