



TSE3062

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Description

TSE3062 is a two-component, low viscosity silicone gel designed for electronics potting applications. This product cures at room temperature to a soft, tacky gel with the addition of curing agent. The cure time can be accelerated with heat. The soft nature and cushioning effect of this product provides excellent protection for electronic assemblies from external humidity, mechanical shock and vibration.

Key Features and Benefits

- Convenient 1:1 mix ratio by weight
- Low viscosity - easily pourable
- Room temperature curable and heat accelerated cure
- Soft, tacky gel
- Absorbs shock and protects delicate mechanical components from vibration
- No reactive by-products; non corrosive
- Excellent electrical properties
- Excellent resistance to temperature extremes

Potential Applications

- Electrical and electronic potting such as hybrid IC and power module
- Potting of high voltage parts

Typical Physical Properties

| Uncured Properties | | TSE3062 A | TSE 3062 B |
|---------------------|-------------------|-------------|------------|
| Appearance | | Transparent | |
| Viscosity (23°C) | Pa·s | 1.0 | 1.0 |
| After mixing | Pa·s | 1.0 | |
| Mix ratio by weight | | 1:1 | |
| Work life (23°C) | h | 1 | |
| Density | g/cm ³ | 0.97 | |

| Cured Properties (0.5h @ 70°C) | | |
|--------------------------------|----------|------------------------|
| Appearance | | Gel |
| Penetration | | 55 |
| Volume resistivity | Ohm · cm | 1.0 · 10 ¹⁵ |
| Dielectric strength | kV/mm | 18 |
| Dielectric constant (60Hz) | | 2.7 |
| Dielectric loss (60Hz) | | 0.001 |
| Volume expansion | 1/K | 1 · 10 ⁻³ |

| | | |
|----------------------|-------|------|
| Thermal conductivity | W/m-K | 0.17 |
|----------------------|-------|------|

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

The shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 4 months when stored in the original unopened containers.

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at www.momentive.com or, upon request, from any Momentive Performance Materials (MPM) representative. **For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center.** Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Processing Recommendations

Materials such as water, sulphur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing. A sample patch should always be conducted before proceeding to determine compatibility. All parts should be clean and dry prior to applications.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Availability

TSE 3062 is available as 2kg and 36kg kits.

Contact Information

For product prices, availability, or order placement, contact our customer service by visiting momentive.com/ContactSilicones.

For literature and technical assistance, visit our website at: www.momentive.com

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