

## Momentive Performance Materials TSE3940 Flame Retardant Adhesive Sealant, Gray

Category : Polymer , Adhesive , Thermoset , Silicone , Silicone, RTV, Adhesive/Sealant Grade

### Material Notes:

TSE3940 and TSE3941 flame retardant adhesive/sealants are non-flowable, one-component RTVs that cure quickly by reacting with atmospheric moisture forming a soft elastic silicone rubber. These materials incorporate a newly developed crosslinking chemistry and are non-corrosive to metallic substrates. They are particularly well suited for electrical/electronic applications. These products differ in color and flame retardancy; TSE3940 is gray and UL94 V-0 rated, TSE3941 is white and is UL94 V-1 rated. When cured, they retain their elastomeric properties throughout the operating temperature range of -55C to 200C (-67F to 392F). Product Features: Meets the corrosion resistant requirements of MIL-A-46146A Fast cure at ambient temperatures Odor, slight alcohol Outstanding adhesion, including most plastics Outstanding electrical properties Resistant to heat, cold, moisture, UV, ozone and chemicals Product Benefits: One component, no mixing or de-airing required Soft consistency provides protection against mechanical and thermal shock Excellent electrical insulation Protects against moisture Varying viscosities allow thorough coating around complex assemblies (TSE399) and thicker coatings where required i.e., high voltage components (TSE392 & TSE397). Convenient packaging/dispensing tubes or cartridges. GE Silicones became a part of Momentive Performance Materials in 2006.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Momentive-Performance-Materials-TSE3940-Flame-Retardant-Adhesive-Sealant-Gray.php](http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-TSE3940-Flame-Retardant-Adhesive-Sealant-Gray.php)

| Physical Properties | Metric    | English   | Comments |
|---------------------|-----------|-----------|----------|
| Specific Gravity    | 1.49 g/cc | 1.49 g/cc |          |

| Mechanical Properties      | Metric   | English | Comments |
|----------------------------|----------|---------|----------|
| Hardness, Shore A          | 40       | 40      |          |
| Tensile Strength, Ultimate | 2.94 MPa | 427 psi |          |
| Elongation at Break        | 200 %    | 200 %   |          |

| Thermal Properties               | Metric      | English                                 | Comments |
|----------------------------------|-------------|---|----------|
| Thermal Conductivity             | 0.410 W/m-K | 2.85 BTU-in/hr-ft <sup>2</sup> -<br>Â°F |          |
| Maximum Service Temperature, Air | 200 Â°C     | 392 Â°F                                 |          |
| Minimum Service Temperature, Air | -55.0 Â°C   | -67.0 Â°F                               |          |
| Flammability, UL94               | V-0         | V-0                                     |          |

| Electrical Properties | Metric          | English         | Comments |
|-----------------------|-----------------|-----------------|----------|
| Volume Resistivity    | 6.00e+14 ohm-cm | 6.00e+14 ohm-cm |          |

| Electrical Properties | <sup>4.5</sup><br>Metric | <sup>4.5</sup><br>English | Comments |
|-----------------------|--------------------------|---------------------------|----------|
|                       | @Frequency 60 Hz         | @Frequency 60 Hz          |          |
| Dielectric Strength   | 21.0 kV/mm               | 533 kV/in                 |          |
| Dissipation Factor    | 0.050                    | 0.050                     |          |
|                       | @Frequency 60 Hz         | @Frequency 60 Hz          |          |

| Processing Properties | Metric   | English     | Comments  |
|-----------------------|----------|-------------|-----------|
| Cure Time             | 5.00 min | 0.0833 hour | Tack free |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color                  | Gray  |          |
| Consistency            | Paste |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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