

# Shin-Etsu Elastomer KE-1950-40A/B

Silicone Rubber, HTV

Shin-Etsu Silicones of America

Message:

Shin-Etsu KE-1950-40 is a liquid injection molding silicone. It is supplied as two components which are mixed in a 1:1 ratio to ensure easy and accurate blending. The viscosity of KE-1950-40 is low enough to allow easy pumping through most injection molding systems.

Fast cure rate for increased productivity.

Curable over a wide range of temperatures. - No catalyst by-products.

Typical Applications

O-rings. - Diaphragms.

Capping.

Rubber rollers.

Connector packings.

Other electrical parts

| General Information            |                                    |                   |
|--------------------------------|------------------------------------|-------------------|
| Features                       | Low viscosity                      |                   |
|                                | Workability, good                  |                   |
|                                | Fast curing                        |                   |
| Uses                           | Electrical/Electronic Applications |                   |
|                                | Electrical components              |                   |
|                                | Diaphragm                          |                   |
|                                | Roller                             |                   |
|                                | Shield                             |                   |
| Agency Ratings                 | FDA not rated                      |                   |
|                                | USP Class VI                       |                   |
| Forms                          | Liquid                             |                   |
| Processing Method              | Liquid Injection Molding (LIM)     |                   |
| Physical                       | Nominal Value                      | Unit              |
| Specific Gravity               | 1.12                               | g/cm <sup>3</sup> |
| Hardness                       | Nominal Value                      | Unit              |
| Durometer Hardness             | 42                                 |                   |
| Elastomers                     | Nominal Value                      | Unit              |
| Tensile Stress (100% Strain)   | 1.01                               | MPa               |
| Tensile Strength               | 9.80                               | MPa               |
| Tensile Elongation (Break)     | 650                                | %                 |
| Tear Strength <sup>1</sup>     | 35.0                               | kN/m              |
| Compression Set (180°C, 22 hr) | 6.0                                | %                 |
| Thermoset                      | Nominal Value                      | Unit              |
| Post Cure Time (200°C)         | 4.0                                | hr                |

| Additional Information             |               |      |
|------------------------------------|---------------|------|
| Press Cure / Post Cure: Press/Post |               |      |
| Uncured Properties                 | Nominal Value | Unit |
| Curing Time                        | 0.083         | hr   |
| NOTE                               |               |      |
| 1.                                 | B mould       |      |

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