

# Shin-Etsu Elastomer KEG-2001-50A/B

Silicone Rubber, HTV

Shin-Etsu Silicones of America

Message:

Shin-Etsu KEG-2001-50 is a very fast cure 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 KEG-2001-50 is low enough to allow easy pumping through most injection molding systems.

- High tear strength
- Rapid cure time at elevated temperature
- Long pot life at room temperature
- Typical Applications
  - O-rings.
  - Diaphragms.
  - Capping.
  - Rubber rollers.
  - Connector packings.
  - Other electrical parts.

| General Information            |                                |                   |
|--------------------------------|--------------------------------|-------------------|
| Features                       | Low viscosity                  |                   |
|                                | Workability, good              |                   |
|                                | Fast curing                    |                   |
|                                | Good tear strength             |                   |
| Uses                           | Electrical components          |                   |
|                                | Diaphragm                      |                   |
|                                | Roller                         |                   |
|                                | Shield                         |                   |
|                                | Connector                      |                   |
| Agency Ratings                 | ISO 10993 Part 10              |                   |
|                                | ISO 10993 Part 5               |                   |
| Processing Method              | Liquid Injection Molding (LIM) |                   |
| Physical                       | Nominal Value                  | Unit              |
| Specific Gravity               | 1.13                           | g/cm <sup>3</sup> |
| Hardness                       | Nominal Value                  | Unit              |
| Durometer Hardness             | 52                             |                   |
| Elastomers                     | Nominal Value                  | Unit              |
| Tensile Stress (100% Strain)   | 1.97                           | MPa               |
| Tensile Strength               | 11.8                           | MPa               |
| Tensile Elongation (Break)     | 530                            | %                 |
| Tear Strength <sup>1</sup>     | 39.9                           | kN/m              |
| Compression Set (180°C, 22 hr) | 8.0                            | %                 |
| Thermoset                      | Nominal Value                  | Unit              |

|                               |               |      |
|-------------------------------|---------------|------|
| Shelf Life (32°C)             | 26            | wk   |
| Post Cure Time (200°C)        | 4.0           | hr   |
| Additional Information        |               |      |
| Press / Post Cure: Press/Post |               |      |
| Uncured Properties            | Nominal Value | Unit |
| Curing Time                   | 0.083         | hr   |
| NOTE                          |               |      |
| 1.                            | B mould       |      |

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