

Shin-Etsu Silicones LIMSâ„¢ KEG2000-70A/B Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

KEG2000-70 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. Its viscosity is low enough to allow easy pumping through most injection molding systems. Features High tear strength Rapid cure time at elevated temperature Long pot life at room temperature Applications O-Rings Diaphragms Capping Rubber rollers Connector packaging Other electrical parts Information Provided by Shin-Etsu Silicones of America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shin-Etsu-Silicones-LIMS-KEG2000-70AB-Elastomer.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|----------|
| Specific Gravity | 1.13 g/cc | 1.13 g/cc | |
| Viscosity | 1.20e+6 cP | 1.20e+6 cP | A |
| | 1.20e+6 cP | 1.20e+6 cP | B |
| Linear Mold Shrinkage | 0.026 cm/cm | 0.026 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|---|---|----------|
| Hardness, Shore A | 68 | 68 | |
| Tensile Strength | 10.2 MPa | 1480 psi | |
| Elongation at Yield | 420 % | 420 % | |
| 100% Modulus | 0.00446 GPa | 0.647 ksi | |
| Tear Strength | 37.0 kN/m | 211 pli | |
| Compression Set | 7.0 % | 7.0 % | |
| | @Temperature 200 Â°C, Time 14400 sec | @Temperature 392 Â°F, Time 4.00 hour | |
| | 36 % | 36 % | |
| | @Temperature 150 Â°C, Time 3600 sec | @Temperature 302 Â°F, Time 1.00 hour | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------|----------------------|------------|
| Cure Time | 5.00 min | 0.0833 hour | Press Cure |
| | @Temperature 150 Â°C | @Temperature 302 Â°F | |
| | 60.0 min | 1.00 hour | Post Cure |
| | @Temperature 150 Â°C | @Temperature 302 Â°F | |

| Processing Properties | Metric | English | Comments |
|------------------------|--------|---------------|------------------|
| Descriptive Properties | | Value | Comments |
| Appearance | | Translucent | |
| Cure Rate | | 35 | T10 (302°F, ODR) |
| | | 48 | T90 (302°F, ODR) |
| Regulatory Testing | | Class VI, FDA | |

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