

**Shin-Etsu Silicones LIMSâ„¢ KE2090-50AB Elastomer**

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

KE-2090-50 is a selective self-adhesive 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.FeaturesSelective self adhesionNon adhesion to metalsInsert-molding and co-injection molding availableInformation Provided by Shin-Etsu Silicones of America, Inc.

Order this product through the following link:  
[http://www.lookpolymers.com/polymer\\_Shin-Etsu-Silicones-LIMS-KE2090-50AB-Elastomer.php](http://www.lookpolymers.com/polymer_Shin-Etsu-Silicones-LIMS-KE2090-50AB-Elastomer.php)

| Physical Properties   | Metric      | English     | Comments |
|-----------------------|-------------|-------------|----------|
| Specific Gravity      | 1.12 g/cc   | 1.12 g/cc   |          |
| Viscosity             | 340000 cP   | 340000 cP   | A        |
|                       | 800000 cP   | 800000 cP   | B        |
| Linear Mold Shrinkage | 0.021 cm/cm | 0.021 in/in |          |

| Mechanical Properties | Metric                                  | English                                 | Comments |
|-----------------------|-----------------------------------------|-----------------------------------------|----------|
| Hardness, Shore A     | 50                                      | 50                                      |          |
| Tensile Strength      | 8.30 MPa                                | 1200 psi                                |          |
| Elongation at Yield   | 420 %                                   | 420 %                                   |          |
| Tear Strength         | 38.0 kN/m                               | 217 pli                                 |          |
| Compression Set       | 9.0 %                                   | 9.0 %                                   |          |
|                       | @Temperature 200 Â°C,<br>Time 14400 sec | @Temperature 392 Â°F,<br>Time 4.00 hour |          |
|                       | 50 %                                    | 50 %                                    |          |
|                       | @Temperature 150 Â°C,<br>Time 3600 sec  | @Temperature 302 Â°F,<br>Time 1.00 hour |          |

| Processing Properties | Metric               | English              | Comments   |
|-----------------------|----------------------|----------------------|------------|
| Cure Time             | 10.0 min             | 0.167 hour           | Press Cure |
|                       | @Temperature 120 Â°C | @Temperature 248 Â°F |            |

| Descriptive Properties | Value       | Comments |
|------------------------|-------------|----------|
| Appearance             | Translucent |          |

| Cure Rate<br>Descriptive Properties | 102<br>Value | T90 (248Â°F, ODR)<br>Comments |
|-------------------------------------|--------------|-------------------------------|
|                                     | 66           | T10 (248Â°F, ODR)             |
| Regulatory Testing                  | Class VI     |                               |

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