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| <b>Product description</b>        | SL8160 is a transparent and addition type of two component silicone RTV.<br>The mixing ratio of Part A(SL8160A) and Part B(SL8160B) is 1:1 by weight percent. It is cured under 130℃ for 10min after mixed. |
| <b>Applications</b>               | Keypad for mobile, Nozzle pad<br>Rubber application where high permeability of light is necessary                                                                                                           |
| <b>Key performance properties</b> | Anticorrosive, Heat vulcanization<br>Excellent electrical properties and thermal stability<br>High stability and flexibility at low temperature<br>High transparency<br>Excellent releasing effect          |

### Typical Property Data

|                    |                                                                                                                                                                             |                                       |                      |  |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|--|
| Benefits           | -Excellent weatherbility<br>-Excellent thermal stability<br>-High transparency                                                                                              |                                       |                      |  |
| Typical properties | Property                                                                                                                                                                    | SL8160A                               | SL8160B              |  |
|                    | Uncured compound                                                                                                                                                            |                                       |                      |  |
|                    | Appearance                                                                                                                                                                  | Transparent , Liquid                  | Transparent , Liquid |  |
|                    | Specific gravity (25 ℃)                                                                                                                                                     | 1.04                                  | 1.03                 |  |
|                    | Viscosity (25 ℃, Pa·s) <sup>1)</sup>                                                                                                                                        | 100                                   | 40                   |  |
|                    | Mixing ratio                                                                                                                                                                | 1 : 1                                 |                      |  |
|                    | Mixing viscosity (25 ℃, Pa·s)                                                                                                                                               | 75                                    |                      |  |
|                    | Pot life (25 ℃, day)                                                                                                                                                        | 1                                     |                      |  |
|                    | Cured compound (130 ℃ × 10 min)                                                                                                                                             |                                       |                      |  |
|                    | Specific gravity (25 ℃)                                                                                                                                                     | 1.03                                  |                      |  |
|                    | Curing rate(at 130 ℃)                                                                                                                                                       | T90 : 130s                            |                      |  |
|                    | Tensile Strength (N/cm <sup>2</sup> )                                                                                                                                       | 6                                     |                      |  |
|                    | Elongation (%)                                                                                                                                                              | 200                                   |                      |  |
|                    | Tear Strength (N/cm)                                                                                                                                                        | 2.7                                   |                      |  |
|                    | Hardness (Type A)                                                                                                                                                           | 60                                    |                      |  |
|                    | 1) Brookfield Viscometer/ spindle no.7, 15 rpm<br>2) Cure conditions : 10 min /170 ℃ in press<br>Caution) Typical property data values should not be used as specifications |                                       |                      |  |
|                    | Composition                                                                                                                                                                 | -Modified Silica<br>-Silicone polymer |                      |  |
|                    | How to use                                                                                                                                                                  | ※ SL8160(Curing time by temperature)  |                      |  |
|                    |                                                                                                                                                                             | Temperature (℃)                       | Curing TIME          |  |
| 25                 |                                                                                                                                                                             | 7~14 Days                             |                      |  |
| 130                |                                                                                                                                                                             | 10 min                                |                      |  |

|     |         |
|-----|---------|
| 150 | 5 min   |
| 170 | 1~5 min |

(Values above are driven by testing 1 mm of test sheet which is mixed with 100 g of each Part A & B under room temperature condition. There could be variations according to the size and shape of test sheet, thermal properties of substrates. Recommend to have pretest under appropriate curing condition.)

|                 |                                                                       |
|-----------------|-----------------------------------------------------------------------|
| <b>Features</b> | -Two component(1:1) -Curing condition (130℃,10min) -High transparency |
|-----------------|-----------------------------------------------------------------------|

## Storage and packaging

|                               |                                                                                                                                                  |
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| <b>Shelf life and storage</b> | Use it within 12 months from the day of manufacture. Store in a cool dry place out of direct sunlight.<br>Keep out of the reach of the children. |
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| <b>Packaging</b> | Part A : 18 kg Plastic pail<br>Part B : 18 kg Plastic pail |
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## Remarks

|                    |                                                                                                                                                                                                                                                                                                                   |
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| <b>Handling</b>    | 1. Wear eye protection and protective glove when handling this product.                                                                                                                                                                                                                                           |
| <b>Precautions</b> | Maintain adequate ventilation in the work place at all times.<br>2. Curing time can be different from temperature ranges.<br>3. For rapid curing condition, refer to the table below.<br>4. If contacts with S, Amine, Sn, vulcanized rubber might cause curing faults, careful attention is needed at all times. |

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| <b>Warranty information</b> | Please read carefully<br>The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that KCC's products are safe, effective, and fully satisfactory for the intended end use.<br>KCC's sole warranty is that the product will meet the KCC sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to replacement of any product shown to be other than as warranted.<br>KCC specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless KCC provides you with a specific, duly signed endorsement of fitness for use, KCC disclaims liability for any incidental or consequential damages.<br>Suggestions of use shall not be taken as inducements to infringe any patent |
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| <b>1'st issue</b> | 2006-09-04 |
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| <b>Revision</b> | 2009-04-16 |
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※ Please refer to MSDS if you want to know more specific usage or caution.  
for further information, please see our website, [www.kccworld.co.kr](http://www.kccworld.co.kr)

