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| <b>Product description</b>        | SL8601 is a two-component liquid silicone rubber for high voltage insulator.<br>(Mixing ratio -A : B = 1 : 1)                                                                                                                     |
| <b>Applications</b>               | High Voltage Insulating (Cable end terminations, Hollowcore insulators, Insulators.)                                                                                                                                              |
| <b>Key performance properties</b> | Suitable for LIMS(Liquid Injection Molding System) because of the similar viscosity of A part and B part<br>No by-products because of addition curing LSR<br>Excellent dielectric properties and physical properties after curing |

### Typical Property Data

|                    |                                                                            |                           |     |             |             |                              |                    |
|--------------------|----------------------------------------------------------------------------|---------------------------|-----|-------------|-------------|------------------------------|--------------------|
| Benefits           | -Low viscosity<br>-High tear strength<br>-Excellent tracking resistance    |                           |     |             |             |                              |                    |
| Typical properties | Properties                                                                 |                           |     | Test method | Unit        | Press 1st cure <sup>2)</sup> |                    |
|                    | Before curing                                                              | Appearance                | PTA | ASTM E 1767 | -           | Gray                         |                    |
|                    |                                                                            |                           | PTB |             |             | Translucent                  |                    |
|                    |                                                                            | Viscosity <sup>1)</sup>   | PTA | ASTM D 4287 | Pa.s        | 65                           |                    |
|                    |                                                                            |                           | PTB |             |             | 65                           |                    |
|                    |                                                                            | 65Mixing ratio(by weight) |     |             |             |                              | 1 : 1              |
|                    | General properties                                                         | Pot life(23 ℃ , Day)      |     |             |             |                              | 3                  |
|                    |                                                                            | Appearance                |     |             | ASTM E 1767 | -                            | Gray               |
|                    |                                                                            | Curing time(120℃ , T60)   |     |             | ASTM D 5289 | sec                          |                    |
|                    |                                                                            | Specific gravity (at 23℃) |     |             | ASTM D 792  | -                            | 1.08               |
|                    |                                                                            | Hardness                  |     |             | ASTM D 2240 | Shore A                      | 42                 |
|                    |                                                                            | Tensile Strength          |     |             | DIN 53504   | MPa                          | 6                  |
|                    |                                                                            | Elongation                |     |             | DIN 53504   | %                            | 550                |
|                    |                                                                            | Tear Strength             |     |             | ASTM D 624  | N/mm                         | 20                 |
|                    | Electrical properties                                                      | Volume resistivity        |     |             | ASTM D 257  | Ω.cm                         | 1x10 <sup>15</sup> |
|                    |                                                                            | Dielectric strength       |     |             | ASTM D 149  | kV/mm                        | 25                 |
|                    |                                                                            | Dielectric constant       |     |             |             | -                            | 2.9                |
|                    |                                                                            | Dissipation factor        |     |             |             | -                            | 0.0003             |
|                    |                                                                            | Tracking resistance       |     |             | CEI/IEC 587 | kV                           | 1A 4.5kV           |
|                    |                                                                            | Arc resistance            |     |             |             | sec                          | 420                |
|                    | 1) Shear Rate 10s-1                                                        |                           |     |             |             |                              |                    |
|                    | 2) Sheet curing conditions : press cure at 170℃/10 min                     |                           |     |             |             |                              |                    |
|                    | Caution) Typical property data values should not be used as specifications |                           |     |             |             |                              |                    |
| Composition        | -Silicone polymer<br>-Silica                                               |                           |     |             |             |                              |                    |
| How to use         | For making a suitable product, Mix components A and B in the ratio 1 : 1   |                           |     |             |             |                              |                    |

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| <b>Features</b>               | -High temperature vulcanizing and addition curing LSR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage and packaging</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Packaging</b>              | PART A : 20 kg Straight PE Pail, 200 kg Straight Drum<br>PART B : 20 kg Straight PE Pail, 200 kg Straight Drum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Remarks</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Handling</b>               | Wear eye protection and protective glove when handling this product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Precautions</b>            | May cause a curing difficulty with amine, sulfur, organicphosphate compound, and organometallic compound.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Warranty information</b>   | <p>Please read carefully</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Suggestions of use shall not be taken as inducements to infringe any patent</p> |
| <b>1'st issue</b>             | 2008-02-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Revision</b>               | 2011-05-24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

※ 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)

