

# Product Information

## Technical Data Sheet

**Silicone Rubber  
Compound**

**TS 331U**

**Low compression set purpose**

### FEATURES

- 31 Shore A hardness
- Translucency

### BENEFITS

- Pigmentable
- Wide service temperature
- Suitable for molding process
- High heat resistance property
- Low compression set

**A TS 331U silicone rubber designed for use in a variety of molded goods**

### 1. APPLICATIONS

Special molded rubber parts such as keypad, gasket, packing and others for high elasticity.

### 2. TYPICAL PROPERTIES

#### TS 331U

| Properties                    | Standard   | Unit    | Value       |
|-------------------------------|------------|---------|-------------|
| Appearance                    | ASTM E1767 |         | Translucent |
| Williams Plasticity           | ASTM D926  | mm/100  | 120         |
| Specific gravity              | ASTM D792  |         | 1.09        |
| Hardness                      | ASTM D2240 | Shore A | 31          |
| Tensile Strength              | ASTM D412  | MPa     | 8.5         |
| Elongation at break           | ASTM D412  | %       | 600         |
| Tear strength, Type C         | ASTM D624  | KN/m    | 21          |
| Linear Shrinkage              | JIS K6249  | %       | 4.0         |
| Compression set (175°C, 22hr) | ASTM D395  | %       | 14          |

Properties obtained using 0.8 part of SC-8B(50P)(2,5-bis(tert-butylperoxy)-2,5-dimethyl hexane) on 2mm thick slabs: molded 10 minutes at 170°C and post-cured 4hours at 200°C.

**\* Specification writers :** These values are not intended for use in preparing specifications.

### 3. HOW TO USE

TS 331U is most suitable for blending or pigmenting, milling with a two-roll mill process. Milling time should be carefully decided to secure uniformity of silicone rubber. When molding, Grace Continental Korea recommends using 0.8 to 1.2 part of SC-8B to 100 parts of silicone rubber. Standard cure temperature is 170°C, and its cure time depends on thickness of final products. Post cure condition would be 4 hours at 200°C after molding in most case.

For more detailed information on the use of TS 331U silicone rubber, please contact Grace Continental Sales.

### 4. PACKING

TS 331U is available in 20kg boxes

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**5. HANDLING PRECAUTIONS**

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Product safety information required for safe use is not included. Before handling, read product and safety data sheet.

**6. USABLE LIFE AND STORAGE**

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When stored at or below 50°C in the original unopened containers, this product has a usable life of 12 months From the date of production.

**7. LIMITATIONS**

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This product is neither tested nor represented as suitable for medical or pharmaceutical uses. This product described herein have been designed, manufactured and developed solely for general industrial use only.

**8. LIMITED WARRANTY INFORMATION : PLEASE READ CAREFULLY**

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