

Product Information

Technical Data Sheet

**Silicone Rubber
Compound**

TS 181U

General Purpose

FEATURES

- 80 Shore A hardness
- Translucency

A TS 181U silicone rubber designed for use in a variety of molded goods

1. APPLICATIONS

General molded rubber parts such as keypad, gasket, packing and others.

BENEFITS

- Pigmentable
- Wide service temperature
- Suitable for molding process

2. TYPICAL PROPERTIES

TS 181U

Properties	Standard	Unit	Value
Appearance	ASTM E1767		Translucent
Williams Plasticity	ASTM D926	mm/100	300
Specific gravity	ASTM D792		1.22
Hardness	ASTM D2240	Shore A	80
Tensile Strength	ASTM D412	MPa	7.5
Elongation at break	ASTM D412	%	180
Tear strength, Type C	ASTM D624	KN/m	20
Linear Shrinkage	JIS K6249	%	3.5
Compression set (175 °C, 22hr)	ASTM D395	%	15

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 181U 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 181U silicone rubber, please contact Grace Continental Sales.

4. PACKING

TS 181U is available in 20kg boxes

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5. HANDLING PRECAUTIONS

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

6. USABLE LIFE AND STORAGE

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

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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