

Product Information

Technical Data Sheet

**Silicone Rubber
Compound**

TS 805/70U

**UL AWG Wire
purpose**

FEATURES

A TS 805/70U silicone rubber designed for use in a variety of extruded goods

- 70 Shore A hardness
- White
- UL AWG Wire Purpose

1. APPLICATIONS

Special extruded rubber parts such as tubes, gasket and cable & wire for UL.

BENEFITS

- Pigmentable
- Wide service temperature
- Suitable for extruding process

2. TYPICAL PROPERTIES

TS 805/70U

Properties	Standard	Unit	Value
Appearance	ASTM E1767		White
Williams Plasticity	ASTM D926	mm/100	220
Specific gravity	ASTM D792		1.41
Hardness	ASTM D2240	Shore A	70
Tensile Strength	ASTM D412	MPa	7.5
Elongation at break	ASTM D412	%	200
Tear strength, Type C	KS M 6783	KN/m	20
Volume resistivity	ASTM D257	$\Omega \cdot \text{cm}$	10^{15}
Dielectric strength	ASTM D149	kV/mm	27

Properties obtained using 1.2 part of SC-2(2,4-dichlorobenzoylperoxide) on 2mm thick slabs: molded 5 minutes at 120°C and post-cured 4hours at 200°C.

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

3. Aging test results

Results	200°CX4hrs Plus 225°CX72hrs	50°CX168hrs Shot test for 210°CX60 days
Change point after aging, Hardness	+3	+8
Change % after aging, Tensile St.	-14	-18
Change % after aging, Elongation	-22	-57

4. HOW TO USE

TS 805/70U 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 extruding, Grace Continental Korea recommends using 1.2 to 1.4 part of SC-2 to 100 parts of silicone rubber. Standard cure temperature is 120°C, and its cure time depends on thickness of final products. Post cure condition would be 4 hours at 200°C after extruding in most case.

For more detailed information on the use of TS 805/70U silicone rubber, please contact Grace Continental Sales.

5. PACKING

TS 805/70U is available in 20kg boxes

6. HANDLING PRECAUTIONS

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

7. 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.

8. 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.

9. LIMITED WARRANTY INFORMATION : PLEASE READ CAREFULLY

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101-303, Bucheon Techno-Park, 364, SamjakRo, Ojeong-Gu, Bucheon-Si, Gyeonggi-Do, South Korea
Web Site : www.gckorea.com

TEL 82-32-328-0121 / FAX 82-32-328-0128

- Sales : info@gckorea.com / sales@gckorea.com

- R&D Institute : rnd@gckorea.com