

Product Information

Technical Data Sheet

**Platinum Addition Cure
System Silicone Rubber**

TS 900 Series

FEATURES

- Non-yellowing & blooming
- PCB Free
- Low Volatility(VOCs Free)

BENEFITS

- Pigmentable
- Suitable for molding & extruding process
- BfR and FDA food contact regulations

TS 900 series silicone rubber designed for use in food and medical industry

1. APPLICATIONS

Addition cure system rubber parts such as Gasket, Tube, O-ring for food & medical industry.

2. TYPICAL PROPERTIES

TS 900 Series

Properties	Standard	Unit	Mechanical properties					
			TS 900/30	TS 900/40	TS 900/50	TS 900/60	TS 900/70	TS 900/80
Appearance	ASTM E1767		Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
Williams Plasticity	ASTM D926	mm/100	130	150	180	210	240	280
Specific gravity	ASTM D792		1.08	1.11	1.14	1.16	1.19	1.22
Hardness	ASTM D2240	Shore A	30	40	50	60	70	80
Tensile Strength	ASTM D412	MPa	8.0	9.0	9.5	9.8	9.5	8.6
Elongation at break	ASTM D412	%	800	700	600	500	400	300
Tear strength, Type C	KS M 6783	KN/m	33	35	37	38	37	36
Linear shrinkage	JIS K6249	%	3.1	2.9	2.8	2.7	2.5	2.3
Volume resistivity	ASTM D257	Ω ·cm	10^{15}	10^{15}	10^{15}	10^{15}	10^{15}	10^{15}
Additive type	Cat- A Type(Pt compound) / Cat- B Type(H-Siloxane) / Cat- C Type(Cure inhibitor)							
Condition	Press Cure : 120°C/5min , Post Cure : 200°C/4hr							

Properties obtained using hydraulics press 2mm thick slabs: molded 5 minutes at 120°C and post-cured 4hours at 200°C.

* **Specification writers 1)** These values are not intended for use in preparing specifications.

2) Product properties were measured under laboratory conditions and depending on the enviroment.

3. HOW TO USE

- 1) TS 900 series is most suitable for blending or pigmenting, milling with a two-roll mill process
- 2) Milling time should be carefully decided to secure uniformity of silicone rubber
- 3) Avoid materials of sulfur, nitrogen, phosphorus series.
- 4) Please follow the mixing procedure below.
Cat- C Type -> Cat- A Type -> Cat- B Type
- 5) After mixing, Use the base compound as soon as possible. The recommended shelf life depends on the content of Additive cure inhibitor Cat-C Type added.

For more detailed information on the use of TS 900 series silicone rubber, please contact Grace Continental Sales.

4. PACKING

TS 900 series is available in 20kg boxes

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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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