

TDS of Standard High temperature resistant silicone

This product is specially designed for the products working at high temperature. It is manufactured with special formula and process, without changing the unique cold resistance of silicone rubber and the excellent physical and mechanical properties, covering a wide range of applications. The three series are slightly different in the appearance: the common type is milk-white, translucent or white; the standard type is light yellow or maroon and the fumed type is light yellow. This product can be used at 250°C for a long time and can withstand an instant temperature of 300°C. It is applicable to production of various temperature resistant seals, rubber rolls and sealing joint strips, etc.

Typical Properties:

Category		Item						
Standard		MY D9121	MY D9131	MY D9141	MY D9151	MY D9161	MY D9171	MY D9181
Appearance		Light yellow						
Vulcanization	Hardness Shore A	23±3	30±3	40±3	50±3	60±3	70±3	80±3
	Tensile strength MPa≥	5.0	5.5	6.5	8.0	8.0	7.5	6.5
	Elongation at break %≥	650	550	450	380	320	220	180
	Breaking set %≤	8	7	7	8	8	8	7
	Tear strength B KN/m≥	10	15	18	20	20	20	18
Post-curing	Hardness Shore A	24±3	31±3	41±3	53±3	63±3	72±3	83±3
	Tensile strength MPa≥	4.5	6.0	7.0	8.0	8.0	7.5	7.0
	Elongation at break %≥	600	660	400	350	300	220	150
	Tear strength B KN/m≥	8	14	16	18	18	20	16
Specific density 25°C g/cm³		1.02±0.04	1.08±0.05	1.13±0.05	1.15±0.05	1.19±0.05	1.22±0.05	1.25±0.05
Compression set 180*22h %≤		45	35	30	30	25	25	25

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Property variation percent during aging (250°C *72h)	Hardness	-5	-3	-3	-3	-3	4	5
	Tensile strength %	-60	-35	-35	-30	-30	-30	-15
	Elongation %	-40	-20	-20	-15	-20	-30	-15

Physical data in the above table is for reference only.

Vulcanization condition: 175°C × 5Min. Post-curing condition: 200°C x 4h

Addition of curing agent: liquid 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane: 0.65%.

Advantage:

- Excellent physical properties
- Being used at 250°C for a long time
- Withstanding an instant temperature of 300°C

Applications:

- Applicable to various high-temperature-resistant sealing elements, rubber rolls and sealing strips

Packing & Storage:

- 20kg/ carton lined with plastic bags or sheets.
- The products have a shelf life of 9 months from date of manufacture depending on the shore hardness if stored at room temperature in the originally sealed container.