

Silicone Rubber

Technical Data Sheet

SR 1200 UTH

Q/SZ 606282 -1620

Description: SR 1200 UTH series is a silicone rubber compound, which is vulcanized and molded after adding vulcanizing agent (the vulcanizing agent is selected according to the needs of the process).

Special properties:

- Excellent raw rubber strength
- It is not easy to be structured in long-term storage.
- No need of secondary vulcanization
- Good thermal stability, heat resistance up to 315°C
- Can be used for mixing with other silicone rubber

Main applications:

Suitable for applications requiring high temperature resistance, such as high temperature kitchen utensils, UL heat resistant cables, hot stamping rollers, gaskets, etc.

Characteristics:

Type (according to GB/T 5576-1997).....	VMQ
Natural color.....	Color Beige

Curing Condition:

Add 1.2% of 2, 5 - dimethyl 2, 5-2 tertiary butyl peroxide n-hexane (45%) at 180 ° C vulcanization after 5 minutes. Secondary sulfide: 200 °C by 4 hours

Mechanical properties

Project	Test method	Unit	SR1240UTH	SR1260UTH	SR1270UTH	SR1280UTH
Mechanical properties, 1.1 after primary vulcanization						
Specific gravity	ASTM D792	g/cm3	1.09	1.18	1.19	1.21
Hardness (Shore A)	ASTM D2240		40	59	71	80
Tensile strength	ASTM D412	MPa	7	8.6	8.5	8
Elongation at break	ASTM D412	%	610	398	450	450
Tear strength (Crescent)	ASTM D 624 B	kN/m	18	24	19	22
Linear shrinkage		%	3.6	3.3	3.2	3
Mechanical properties, 1.2 after post cure						
Hardness (Shore A)	ASTM D2240		41	62	72	82

Tensile strength	ASTM D412	MPa	7.4	9.4	9.5	8.4
Elongation at break	ASTM D412	%	530	354	410	300
Tear strength (Crescent)	ASTM D 624 B	kN/m	17	20	24	23
Compression set 177 °C × 22hr/25%	ASTM D395 Method B	%	15	3.4	25	27
Linear shrinkage		%	4.3	3.4	3.5	3.4
Thermal stability, 2.1 Performance after aging for 3 days at 300 °C						
Hardness (Shore A)	ASTM D2240		46	68	77	89
Tensile strength	ASTM D412	MPa	5	4.9	5	4.5
Elongation at break	ASTM D412	%	300	171	150	110
Thermal stability, 2.2 Performance after aging for 7 days at 300 °C						
Hardness (Shore A)	ASTM D2240		56	74	83	93
Tensile strength	ASTM D412	MPa	5	4.2	4.4	3.5
Elongation at break	ASTM D412	%	260	115	110	90
Thermal stability, 2.3 Performance after 10 days aging at 300 °C						
Hardness (Shore A)	ASTM D2240		66	77	85	94
Tensile strength	ASTM D412	MPa	4.5	3.6	3.8	3.8
Elongation at break	ASTM D412	%	200	101	100	90

Packaging: 20 kg per cardboard boxes.

Storage and shelf life:

SR12XXTHT in unopened original packaging, below 40 °C temperature, since the production date shows that on the package saved for 3 months.

For More Product Information, Please Visit Our Website: www.sanezen.com

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