

Silicone Rubber

Technical Data Sheet

SX0325-2022-01 V2

Sanesil SR 2100 UOR Series

Description: Series of SR 2100 UOR are silicone rubber compounds which are vulcanization molding by adding curing agents. (The curing agents should be chosen according to process requirements.)

Special properties:

- Excellent physical strength of raw rubber.
- Barely structured in a long-term storage.
- Low compression set.
- Good thermal stability, up to 225°C
- Excellent resistance to oil (low swelling).
- Being able to be mixed with other rubbers.

Main applications:

- SR2100 UOR series can be used to manufacture mechanical rubber goods which require low compression set and good oil resistance. This series is suitable for molding, injection, extrusion process.

Characteristics:

Type (according to GB/T 5576-1997).....MVQ
 Natural color.....White

Curing Condition:

After addition of 1.2% of 2.5-dimethyl bis -(tertiobutyl peroxy) 2.5-hexane (50%) and vulcanization for 5 min. at 175°C, with post curing at 200°C×4.

Mechanical properties:

Item	Test Method	Unit	Technical date			
			SR2150UOR	SR2160UOR	SR2170UOR	SR2180UOR
1 Mechanical properties, 1.1after a single curing						
Density	ASTM D792	g/cm ³	1.19	1.25	1.32	1.37
Hardness (Shore A)	ASTM D2240		51	62	71	82
Tensile Strength	ASTM D412	MPa	7.8	7.5	8.2	8.5
Elongation	ASTM D412	%	350	300	220	160
Tear Strength (Crescent)	ASTM D 624 B	kN/m	16	15	15.2	13.2
1 Mechanical properties, 1.1after secondary curing						

Hardness (Shore A)	ASTM D2240		52	62	72	83
Tensile Strength	ASTM D412	MPa	7.7	7.5	8.3	8.6
Elongation	ASTM D412	%	320	280	190	150
Tear Strength (Crescent)	ASTM D 624 B	kN/m	15	14	15.3	13
Compression Set (22hr/177°C)	ASTM D395 Method A	%	10	10.9	8.2	7.9
1 Mechanical properties , 1.3 Performance changes after 70 hours of aging at 225°C						
Hardness (Shore A)	ASTM D2240		55	65	74	85
Tensile Strength	ASTM D412	MPa	7.1	6.5	6.4	6.84
Elongation	ASTM D412	%	310	235	150	130
2 Oil resistance : 2.1 Performance changes after 70 hours of aging in ASTM 903 oil at 150°C						
Hardness (Shore A)	ASTM D2240		36	48	56	69
Tensile Strength	ASTM D412	MPa	3.5	3.8	5.7	6.3
Elongation	ASTM D412	%	430	400	340	274
Volume change rate	ASTM D 471	%	37	35	36	34
2 Oil resistance : 2.1 Performance changes after 70 hours of aging in ASTM 901 oil at 150°C						
Hardness (Shore A)	ASTM D2240		49	60	69	80
Tensile Strength	ASTM D412	MPa	6.7	6.8	7.5	7.4
Elongation	ASTM D412	%	420	350	310	285
Volume Change Rate	ASTM D 471	%	5.4	5.2	3.4	2.3

Packaging: 20 kg per cardboard boxes.

Storage and shelf life:

SR2100 UOR series may be stored in its original unopened packaging at a temperature below 40°C for up to 12 months as from the date of manufacture.

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

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