

# Phenyl Silicone Rubber

Technical Data Sheet

SX0325-2022-27 V2

## SR 32XX UDP Series

Description: SR 32XX UDP series are phenyl silicone rubbers with good resistance to radiation and low & high temperature.

### Special properties:

- Resistance to crepharding.
- Good mechanical properties.
- Excellent resistance to low temperature and radiation.
- Wide operating temperature -100°C~250°C.
- Easily processed and easily pigmented.

### Main applications:

- Automotive industry: all kinds of vehicle seal ring, oil seal, diaphragm, conduit, valve lining, etc.
- Petrochemical industry: all kinds of high temperature, low temperature, chemical erosion resistance pump, valve, oil tank and other equipment sealing products.
- Astronomy industry: aircraft fuel oil and lubricating oil seals, contact parts, such as all kinds of O ring, filling, sealing ring, sensor materials, diaphragm, liner clamp.
- Military industry: low temperature resistance/oil resistance/acid resistance in harsh environment, such as military aircraft hydraulic system infusion bellows, sealing strip of special vehicle doors and Windows/back cover, sensor materials.

### Characteristics:

Type (according to GB/T 5576-1997).....PVMQ

Natural color.....translucent, smooth surface, no impurities

### Curing Condition:

After addition of 1.2% of 2.5-dimethyl bis -(tertiobutyl peroxy) 2.5-hexane (45%) and vulcanization for 5 min. at 180°C, with post curing at 200°C×4hour.

### Mechanical properties:

Item	Testing Method	Unit	SR3250UDP	SR3270UDP	SR3280UDP
Density	ASTM D792	g/cm <sup>3</sup>	1.25	1.26	1.27
Hardness(Shore A)	ASTM D2240		50	69	80
Tensile Strength	ASTM D412	MPa	9.5	10.2	9.2
Elongation at Break	ASTM D412	%	550	400	140
Tear Strength (Right Angle)	ASTM D 624 C	kN/m	28	35	19
Brittle Temperature		°C	-100°C	-100°C	-100°C

Mechanical properties 1.1 Performance changes after aging at 225°Cx72H					
Hardness(Shore A)	ASTM D2240		52	71	82
Tensile Strength	ASTM D412	MPa	9.2	9.6	9.0
Elongation at Break	ASTM D412	%	400	310	120
Mechanical properties 1.2 Performance changes after aging at 250°Cx72H					
Hardness(Shore A)	ASTM D2240		56	75	85
Tensile Strength	ASTM D412	MPa	5.2	5.4	5.6
Elongation at Break	ASTM D412	%	340	270	80

**Packaging:** 20 kg per cardboard boxes.

**Storage and shelf life:**

SR 32XX UDP 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](http://www.sanezen.com)

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