

# Silicone Rubber

Technical Data Sheet

## High Tear Resistance SR32XXU SR33XXU Series

SX0325-2022-04 V2

Description: This series is silicone rubber compounds with high transparency and tear resistance which are vulcanization molding by adding curing agents. (The curing agents should be chosen according to process requirements.)

### Special properties:

- Transparent appearance, excellent physical performance.
- Resistance to crephardening in a long-term storage.
- Low compression set.
- High tear resistance.
- Excellent process performance.
- Can be used to mix with other rubbers.

### Main applications:

- Suitable for molding products which require high tear resistance with complex structure and high mechanical property. Suitable for large size extruded products such as special cable sheath. Suitable for large size vulcanized products such as silicone rubber plate and air bags.
- SR32XXU & SR36XXU: crescent tear is up to 30~40, right angle tear is up to around 40. Suitable for general high tear occasions, the price is moderate.
- SR33XXU: Can be used in special occasions that require super high tear resistance meets around 50. The price is higher.

### Characteristics:

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

Natural color.....transparency

### Curing Condition:

After addition of 1.2% of 2.5-dimethyl bis -(tertiobutyl peroxy) 2.5-hexane (45%) and vulcanization for 5 min. at 170°C, with post curing at 200°C×4.

### Mechanical properties:

Item	Testing Method	Unit	Technical data						
			SR3240 U	SR3250 U	SR3270 U	SR3280 U	SR3350 U	SR3360 U	SR3370 U
Appearance	目测	/	semitransparent	semitransparent	semitransparent	semitransparent	semitransparent	semitransparent	semitransparent
Density	ASTM D792	g/cm <sup>3</sup>	1.10	1.14	1.19	1.21	1.14	1.16	1.18
Hardness(Shore A)	ASTM D2240		41	49	71	82	52	60	72

Tensile Strength	ASTM D412	MPa	9.5	10	10.5	9.8	11	11.2	10.8
Elongation	ASTM D412	%	850	700	450	300	820	570	520
Tear Strength (crescent)	ASTM D 624 B	kN/m	30	35	36	30	45	48	49

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

#### **Storage and shelf life:**

This 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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