

Liquid Silicone Rubber

Technical Data Sheet

Sanesil LSR6100 A/B

SX0610-2023-27 V2

Description: Sanesil LSR6100 A/B is a two-component general purpose liquid silicone rubber designed for producing high clarity, high tear strength parts through injection process after A/B mix with ratio of 1/1.

Special properties:

- Excellent mold release and easily pigmented, soft skin-like feel when molded
- Superior clarity, small deformation value
- High transparency, high strength, good resilience, yellowing resistance, aging resistance
- Complies with US FDA CFR 21 Part 177.2600 standards
- Conforms to European EN14350-2, Section 4.9 Volatile Compound Test Standards
- Meets European ROHS and REACH Standards
- Pot-life of the mixture of the two components (closed vessel) at 20°C is 5 days
- Increased temperatures reduce the pot-life

Main applications:

- Baby care parts: baby pacifiers , baby bottles, bottle caps, baby tableware, baby toys, etc.
- Respiratory mask
- Automotive applications: valves, gaskets, seals
- Skin contact parts like liners
- Balloons

Mechanical properties

Grade	Appearance A/B	Density (g/ cm ³)	Hardness (Shore A)	Tensile strength (MPa)	Elongation at break (%)	Tensile set (%)	Tear strength (N/mm)	Line shrinkage (%)	Rebound (%)
Test method		ISO 2771	ASTM D 2240	ASTM D 412 Die C	ASTM D 412 Die C	ASTM D 412 Die C	ASTM D624 Die B	ASTM D4029	ASTM D 7121
LSR 6110	Transparent	1.07	10	1.6	755	4.3	5.1	2.5	21
LSR 6115	Transparent	1.08	15	3.5	845	3.4	9.2	2.6	45
LSR 6118	Transparent	1.08	17	5.1	800	3.5	12	2.5	50
LSR 6120	Transparent	1.09	20	6.4	810	2.6	16	2.5	48
LSR 6130	Transparent	1.10	30	7.0	700	2.6	15	2.4	55
LSR 6140	Transparent	1.11	41	7.5	560	2.7	25	2.5	56
LSR 6150	Transparent	1.12	50	9.1	550	1.7	31	2.6	64
LSR 6160	Transparent	1.12	59	9.4	510	1.6	35	2.6	62
LSR 6167	Transparent	1.13	66	9.5	410	0.8	30	2.6	56
LSR 6170	Transparent	1.13	71	9.0	355	0.8	26	2.5	55

Size of testing slabs 160mm*160mm*2mm at 177°C cured for 5 minutes with hot mold. Compression set slabs at 177°C cured for 10 minutes with cold mold. Compression set test condition: 177°C*22hours, 25%.

Please note: The typical properties are not intended for use in preparing specifications for any particular applications. Please contact our Technical Service Department for more detailed data.

Instruction of use: Cure is dependent upon molding temperature and part size. The same lot part A and B components of **Sanesil LSR6100A/B** are designed to be mixed in equal parts using standard liquid injection molding processing equipment and techniques with the mixing temperature lower than 35°C. Airless mixing, metering and dispensing equipment are recommended for production operations. Accurate measuring and complete mixing are essential factors in obtaining consistent results.

Cleaning : Special care must be taken to assure clean moulds and a clean work area with no organic rubbers used on the same processing equipment. Traces of foreign materials can poison the catalyst and inhibit the cure. All metering and mixing equipment should be thoroughly cleaned. Polymer systems, which contain traces of amines, sulfur, nitrogen oxide, organotin compounds and carbon monoxide can interfere with the cure of this product and should be avoided.

Packaging: **Sanesil LSR6100A/B** is available in 20 kg pails or 200 kg drums.

Storage and shelf life:

This series may be stored in the original, unopened container at a temperature between 0°C and 30°C, can be stored for 12 months from the date of manufacturing. Beyond this date, we no longer guarantees that the product meets the sales specifications.

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

Contact:

Plant Address: Baishou Road, North District of Xuan Zhou Economic Development Zone, Xuan Cheng City Anhui Province, China.

Commercial Address: Room 1606-1608, Boda Commercial Buildings, No. 11 Puhuitang Road Xuhui District, Shanghai, China 200030 Tel: +86 21 6487 9251 Fax: +86 21 5106 2693

E-mail: kevenwang@sanezen.com

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