

# SQUARE® LIM2012-70A/B

Silicone Rubber, LSR

Shenzhen SQUARE Silicone Co., Ltd.

## Message:

Liquid Silicone Rubber

Product Description

SQUARE® LIM2012-XXA/B is one kind of 2-part liquid silicone rubber, catalyzed by platinum, mixing ratio of parts A:B=1:1, suitable for injection molding processes, meet biology activity requirement of ISO 10993. This series gain USP Class VI.

Key Features

High transparency

High tensile and tear strength

Good rebound property

Excellent thermal and cold stability (-60°C to 250°C)

Low yellowing

Outstanding resistance to ageing

Meet ISO 10993 biological reactivity test, GB/T 16886.10-2000 and GB/T16886.5-2003 standard

At the temperature of 20 and in the condition of air-proof, the shelf life is 5 days after mixing A and B, the shelf life will decrease with the increasing of the temperature.

Applications

SQUARE® LIM2012-XXA/B is suitable for making medical instruments used inside or outside of human body

| General Information            |                                |                   |             |
|--------------------------------|--------------------------------|-------------------|-------------|
| Features                       | High tensile strength          |                   |             |
|                                | Good tear strength             |                   |             |
|                                | Definition, high               |                   |             |
|                                | Thermal stability, good        |                   |             |
| Uses                           | Medical devices                |                   |             |
| Agency Ratings                 | ISO 10993                      |                   |             |
|                                | USP Class VI                   |                   |             |
| Appearance                     | Clear/transparent              |                   |             |
| Processing Method              | Liquid Injection Molding (LIM) |                   |             |
| Physical                       | Nominal Value                  | Unit              | Test Method |
| Specific Gravity               | 1.14                           | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow       | 2.4                            | %                 | JIS K6301   |
| Hardness                       | Nominal Value                  | Unit              | Test Method |
| Durometer Hardness (Shore A)   | 70                             |                   | ASTM D2240  |
| Elastomers                     | Nominal Value                  | Unit              | Test Method |
| Tensile Strength               | 7.50                           | MPa               | ASTM D412   |
| Tensile Elongation (Break)     | 300                            | %                 | ASTM D412   |
| Tear Strength <sup>1</sup>     | 30.0                           | kN/m              | ASTM D624   |
| Compression Set (175°C, 22 hr) | 22                             | %                 | DIN 53517   |
| Thermoset                      | Nominal Value                  | Unit              | Test Method |
| Thermoset Components           |                                |                   |             |

|                     |                             |      |             |
|---------------------|-----------------------------|------|-------------|
| Component a         | Mixing ratio by weight: 1.0 |      |             |
| Component B         | Mixing ratio by weight: 1.0 |      |             |
| Pot Life (20°C)     | 7200                        | min  |             |
| Shelf Life          | 52                          | wk   |             |
| Uncured Properties  | Nominal Value               | Unit | Test Method |
| Viscosity           | 0.80                        | Pa·s | DIN 53019   |
| Curing Time (150°C) | 0.12                        | hr   |             |
| NOTE                |                             |      |             |
| 1.                  | B mould                     |      |             |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

