

Mold Max® 10

Silicone
Smooth-On, Inc

Message:

Mold Max® Silicones are tin-cured silicone rubber compounds that have exceptional working properties and library life. Mold Max® Silicones feature Smooth-On's exclusive "Libra®" catalyst for long library life. Mold Max® silicones can be pigmented with Silc Pig® silicone colorants. Pot life for the pourable silicones is 45 minutes and they cure overnight at room temperature.

Mold Max® Silicones will reproduce the finest detail and are suitable for a variety of industrial and art related applications including making molds for reproducing prototypes, furniture, sculpture and architectural elements. Mold Max® 10, 20, 25 and 30 silicones can be thickened with THI-VEX® additive for brush-on applications. (Note: THI-VEX® is NOT compatible with Mold Max® 40 or 60). Mold Max® 60 offers highest heat resistance for casting metal (see separate technical bulletin).

Mold Max® Silicones can be used to cast a variety of materials including wax, gypsum, low melt alloys/metals and urethane, epoxy or polyester resins (without using a release agent).

| General Information | | | |
|------------------------------|--------------------|-------|-------------|
| Uses | Modeling Material | | |
| | Prototyping | | |
| Appearance | Pink | | |
| Processing Method | Casting | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.15 | g/cm³ | ASTM D1475 |
| Specific Volume | 0.871 | cm³/g | ASTM D1475 |
| Mixing Ratio | 100A:10B by weight | | |
| Operating Temperature | -54 to 204 | °C | |
| Molding Shrinkage - Flow | 0.10 | % | ASTM D2566 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 10 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 0.241 | MPa | ASTM D412 |
| Tensile Strength (Break) | 3.26 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 530 | % | ASTM D412 |
| Tear Strength ¹ | 17.5 | kN/m | ASTM D624 |
| Thermoset | Nominal Value | Unit | Test Method |
| Pot Life | 45 | min | |
| Thermoset Mix Viscosity | 15000 | cP | ASTM D2393 |
| Demold Time | 1400 | min | |
| NOTE | | | |
| 1. | Die B | | |

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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

