

# Mold Star® 16 FAST

Silicone

Smooth-On, Inc

## Message:

Mold Star® rubbers are easy to use platinum silicones which are mixed 1A:1B by volume (no weighing scale necessary). Mold Star® silicones feature relatively low viscosities and vacuum degassing is not required for most applications. The pot life of Mold Star® 15 SLOW is 50 minutes and cure time is 4 hours at room temperature. Mold Star® 16 FAST is a faster material with a 6 minute pot life and 30 minute cure time. Mold Star® 30 is a harder material, with a 30A Shore hardness

Mold Star® silicones cure to soft, strong rubbers which are tear resistant and exhibit very low long term shrinkage. Molds made with Mold Star® will last a long time in your mold library and are good for casting wax, gypsum, resins, concrete and other materials. Cured Mold Star® rubber is heat resistant up to 450°F (232°C) and is suitable for casting low-temperature melt metal alloys. Note: Mold Star® rubbers are not intended for brush-on moldmaking.

| General Information          |                          |                    |             |
|------------------------------|--------------------------|--------------------|-------------|
| Features                     | Good Strength            |                    |             |
|                              | Good Tear Strength       |                    |             |
|                              | Low Shrinkage            |                    |             |
|                              | Low Viscosity            |                    |             |
|                              | Soft                     |                    |             |
| Uses                         | Modeling Material        |                    |             |
| Appearance                   | Blue-Green               |                    |             |
| Processing Method            | Casting                  |                    |             |
| Physical                     | Nominal Value            | Unit               | Test Method |
| Specific Gravity             | 1.18                     | g/cm <sup>3</sup>  | ASTM D1475  |
| Specific Volume              | 0.849                    | cm <sup>3</sup> /g | ASTM D1475  |
| Service Temperature          | -54 to 232               | °C                 |             |
| Cure Time                    | 30.0                     | min                |             |
| Molding Shrinkage - Flow     | < 0.10                   | %                  | ASTM D2566  |
| Hardness                     | Nominal Value            | Unit               | Test Method |
| Durometer Hardness (Shore A) | 16                       |                    | ASTM D2240  |
| Elastomers                   | Nominal Value            | Unit               | Test Method |
| Tensile Stress (100% Strain) | 0.379                    | MPa                | ASTM D412   |
| Tensile Strength (Break)     | 2.76                     | MPa                | ASTM D412   |
| Tensile Elongation (Break)   | 440                      | %                  | ASTM D412   |
| Tear Strength <sup>1</sup>   | 15.4                     | kN/m               | ASTM D624   |
| Thermoset                    | Nominal Value            | Unit               | Test Method |
| Thermoset Components         |                          |                    |             |
| Part A                       | Mix Ratio by Weight: 1.0 |                    |             |
| Part B                       | Mix Ratio by Weight: 1.0 |                    |             |
| Pot Life                     | 6.0                      | min                | ASTM D2471  |
| Thermoset Mix Viscosity      | 12500                    | cP                 | ASTM D2393  |
| NOTE                         |                          |                    |             |

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