

# Mold Star® 30

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		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D1475
Specific Volume	0.892	cm <sup>3</sup> /g	ASTM D1475
Service Temperature	-54 to 232	°C	
Cure Time	6.0	hr	
Molding Shrinkage - Flow	< 0.10	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	30		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.662	MPa	ASTM D412
Tensile Strength (Break)	2.90	MPa	ASTM D412
Tensile Elongation (Break)	340	%	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	45	min	ASTM D2471
Thermoset Mix Viscosity	12500	cP	ASTM D2393
NOTE			

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#### Recommended distributors for this material

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