

Mold Max® 40

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® silcones 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	Light Green		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D1475
Specific Volume	0.878	cm³/g	ASTM D1475
Mixing Ratio	100A:10B by weight		
Operating Temperature	-54 to 204	°C	
Molding Shrinkage - Flow	0.40	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.31	MPa	ASTM D412
Tensile Strength (Break)	3.79	MPa	ASTM D412
Tensile Elongation (Break)	250	%	ASTM D412
Tear Strength ¹	21.0	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Pot Life	45	min	
Thermoset Mix Viscosity	45000	cP	ASTM D2393
Demold Time	1400	min	
NOTE			
1.	Die B		

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