

# Smooth-Sil® 940

Silicone

Smooth-On, Inc

## Message:

Smooth-On Smooth-Sil® Platinum Silicones cure at room temperature with negligible shrinkage. With different hardnesses to choose from, Smooth-Sil® products offer tremendous versatility and are suitable for making production molds of any configuration, large or small. These silicones exhibit good chemical, abrasion and heat resistance. Materials such as plasters, concrete, wax, low-melt metal alloys or resins (urethane, epoxy or polyester) can then be cast into these silicone rubbers without a release agent.

Smooth-Sil® Platinum Silicones are used for rapid prototyping, wax casting (foundries and candle makers), architectural restoration and for casting concrete. Smooth-Sil® 940 is suitable for food related applications. (See separate technical bulletin for usage instructions available at [www.smooth-on.com](http://www.smooth-on.com)).

General Information			
Features	Food Contact Acceptable Good Abrasion Resistance Good Chemical Resistance High Heat Resistance Low Shrinkage		
Uses	Modeling Material Prototyping		
Appearance	Pink		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D1475
Specific Volume	0.845	cm <sup>3</sup> /g	ASTM D1475
Mixing Ratio	100A:10B by weight		
Operating Temperature	-54 to 232	°C	
Molding Shrinkage - Flow	< 0.010	%	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)	1.38	MPa	ASTM D412
Tensile Strength (Break)	4.14	MPa	ASTM D412
Tensile Elongation (Break)	300	%	ASTM D412
Tear Strength <sup>1</sup>	17.5	kN/m	ASTM D624
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	> 14	kV/mm	ASTM D149
Thermoset	Nominal Value	Unit	Test Method
Pot Life	30	min	ASTM D2471
Thermoset Mix Viscosity	35000	cP	ASTM D2393

Demold Time	1400	min
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#### NOTE

1. Die B

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#### Recommended distributors for this material

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