

Sorta Clear® 40

Silicone
Smooth-On, Inc

Message:

SORTA-Clear® 40 is a premium water white translucent silicone rubber (platinum catalyst) that cures at roomtemperature with negligible shrinkage. SORTA-Clear® 40 has a Shore hardness of 40A and features exceptional tear andtensile strength. Rubber clarity is especially useful when extracting models via cutting.

SORTA-Clear® rubber is ideal for making prototype, jewelry or other molds of any configuration where model visibility is important (i.e. extracting a model from the mold via cutting). Materials such as urethane, epoxy or polyester resins can then be cast into SORTA-Clear® silicone without application of a release agent. Other materials such as wax and low melt metal alloys can also be cast intoSORTA-Clear®. SORTA-Clear® can be pigmented with SILC Pig® silicone pigments.

Sorta Clear® 40 is also FOOD SAFE and can be used for culinary applications including casting chocolate and other confections. (See separate technical bulletin for usage instructions available at www.smooth-on.com).

General Information			
Features	Food Contact Acceptable		
	Good Tear Strength		
	High Clarity		
	High Tensile Strength		
	Low Shrinkage		
Uses	Jewelry		
	Modeling Material		
	Non-specific Food Applications		
	Prototyping		
Appearance	Clear/Transparent		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D1475
Specific Volume	0.925	cm³/g	ASTM D1475
Mixing Ratio	100A:10B by weight		
Molding Shrinkage - Flow	< 0.10	%	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)	0.621	MPa	ASTM D412
Tensile Strength (Break)	5.52	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Tear Strength ¹	21.0	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	60	min	ASTM D2471
Thermoset Mix Viscosity	35000	cP	ASTM D2393

Demold Time (23°C)	960	min
NOTE		
1.	Die B	

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Recommended distributors for this material


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