

Sorta Clear® 18

Silicone
Smooth-On, Inc

Message:

SORTA-Clear® 18 is a premium water white translucent silicone rubber (platinum catalyst) that cures at room temperature with negligible shrinkage. A softer version of our popular SORTA-Clear® 40, this rubber has a Shore hardness of 18A and features exceptional tear and tensile strength. 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 into SORTA-Clear®. SORTA-Clear® can be pigmented with SILC Pig® silicone pigments.

Sorta Clear® 18 is also FOOD SAFE and can be used for culinary applications including casting chocolate and other confections

General Information			
Features	Good Tear Strength		
	High Clarity		
	High Tensile Strength		
	Low Shrinkage		
Uses	Jewelry		
	Modeling Material		
	Prototyping		
Appearance	Clear/Transparent		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	ASTM D1475
Specific Volume	0.925	cm³/g	ASTM D1475
Cure Time	1.0	day	
Molding Shrinkage - Flow	< 0.10	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	18		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.241	MPa	ASTM D412
Tensile Strength (Break)	2.93	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength ¹	14.0	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 10		
Pot Life (23°C)	60	min	ASTM D2471
Thermoset Mix Viscosity	21000	cP	ASTM D2393

NOTE

1. Die B

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Recommended distributors for this material

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