

Mold Max® XLS II

Silicone

Smooth-On, Inc

Message:

Mold Max® XLS® II is a Shore 30A tin-catalyzed silicone rubber that exhibits very low long-term shrinkage. XLS® II molds last longer than other silicones in production when casting chemically harsh resins such as epoxies and polyesters as well as urethane foams. Mix ratio is 100A:10B by weight. Pot life is 40 minutes and cure time is 24 hours at room temperature. Mold Max® XLS® II silicone will reproduce the finest detail and is suitable for a variety of industrial and art related applications including making production molds for, reproducing prototypes, furniture, sculpture and architectural elements. Mold Max® XLS® II can be thickened with THI-VEX® II additive for brush-on applications. Mold Max® XLS® II silicone can be used to cast a variety of materials including concrete, wax, gypsum, low melt alloys/metals, epoxy or polyester resins (without using a release agent) and urethane foams.

General Information			
Features	Low Shrinkage		
Appearance	Blue		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D1475
Specific Volume	0.820	cm ³ /g	ASTM D1475
Mixing Ratio	100A:10B by weight		
Operating Temperature	-54 to 204	°C	
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)	0.655	MPa	ASTM D412
Tensile Strength (Break)	3.79	MPa	ASTM D412
Tensile Elongation (Break)	380	%	ASTM D412
Tear Strength ¹	19.3	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity	0.035	W/m/K	ASTM D1461
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.0E+15	ohms · cm	ASTM D257
Dielectric Strength	> 14	kV/mm	ASTM D149
Dielectric Constant (100 Hz)	3.40		ASTM D150
Dissipation Factor (100 Hz)	2.0E-3		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	40	min	ASTM D2471
Thermoset Mix Viscosity	30000	cP	ASTM D2393
Demold Time (23°C)	1400	min	
NOTE			

1. Die B

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Recommended distributors for this material

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