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AeroMarine Silicone Potting and Encapsulating Rubber

Product Description

AeroMarine Silicone Moldmaking Rubber is a two component, room temperature addition cure silicone material. The cured rubber is flame resistant and has excellent mechanical properties and good shelf-life stability. This material is an excellent choice for moldmaking of intricate patterns, skin molding and applications where medium durometer, dimensional stability and extremely tough rubber are required.

The simple one to one mix ratio. As in all similar applications, a small test to determine the suitability of this product for a specific application is recommended.

Key Features

Simple one to one mix ratio
Low viscosity
Wide operating temperature range
Flame resistant
Fast demold time
Excellent dimensional stability

Main Applications

- Potting electrical circuits
- Ideal for marine and automotive use
- Vibration and moisture protection

Typical Properties

Uncured properties	"A" component	"B" component
Appearance	Black	Buff
Viscosity, cps	2000	1000
Catalyzed properties		
Specific gravity	1.34	
Pot life	≈45 minutes	
Cure time	12 Hours	
Typical cured properties		
Durometer	50	
Tensile Strength, psi	>450	
Elongation, %	>150	
Tear B, pli	~25	
Linear shrinkage	<0.3	
Useful Temperature Range	-50F to 500F	
Typical electrical properties		
Dielectric Strength volts/mil	450	
Dielectric Constant, 1 KHz	3.15	
Volume Resistivity ohm/cm	1.0×10^{15}	
Linear shrinkage	<0.3	

Cure Characteristics

The curing process begins as soon as the catalyst is mixed with the base. Under normal

temperature(25C) and humidity(50% RH) conditions, the material will cure as described in the data above. Any large change in temperature(+/-5C) or humidity(>60-70%) may alter the cure profile of the material.

