

RTV-2 GI-650

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

GI-650 is a high tear strength, tin-catalyzed RTV-2 silicone rubber, which was designed for casting polyester parts. GI-650 is not sensitive to inhibition, meaning it will cure at room temperature over virtually any surface. It is easy to mix and de-air, and will cure with only a slight degree of shrinkage. The speed at which the rubber hardens can be accelerated with special activators. Condensation cure two-component silicone rubbers are excellent for most general mold making and prototype applications. They are excellent for casting waxes, gypsum, epoxies and other plastics. GI-650 is extremely useful for those applications where superior mechanical properties are required.

General Information			
Features	Good Tear Strength		
	Low Shrinkage		
Uses	Molds/Dies/Tools		
Forms	Liquid		
Physical	Nominal Value	Unit	
Specific Gravity	1.08	g/cm ³	
Shrinkage - Cured	0.10	%	
Service Temperature - Cured	-51 to 171	°C	
Coverage - Cured	0.932	cm ³ /g	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Weight: 1.0		
Hardener	Mix Ratio by Volume: 11		
	Mix Ratio by Weight: 10		
Resin	Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity ¹	20000 to 30000	cP	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ²	Blue		
-- ³	White		
Viscosity			
-- ⁴	0.30 to 0.40	Pa·s	
-- ⁵	40 to 60	Pa·s	
Curing Time	16 to 18	hr	

Pot Life	90 to 150	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness			
Shore A ⁶	19 to 27		
Shore A ⁷	23 to 31		
Tensile Strength	3.28 to 3.62	MPa	ASTM D412
Tensile Elongation at Break	300 to 350	%	ASTM D412
Tear Strength	15.8 to 19.3	kN/m	ASTM D624
NOTE			
1.	Mixed		
2.	Activator		
3.	Base		
4.	Activator		
5.	Base		
6.	1 Day		
7.	7 Days		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

