

RTV-2 GI-1100

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

GI-1100 is a high tear strength, tin-catalyzed RTV-2 silicone rubber, which was designed for casting polyester parts. GI-1100 is especially good for molds with deep undercuts and for molds that require flexing for part removal. GI-1100 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-1100 is extremely useful for those applications where superior elongation and medium durometer are required.

General Information			
Features	Good Colorability		
	Good Flexibility		
	Good Tear Strength		
	Low Shrinkage		
Forms	Liquid		
Physical	Nominal Value	Unit	
Specific Gravity	1.07	g/cm³	
Shrinkage - Cured	0.10	%	
Service Temperature - Cured	-51 to 171	°C	
Coverage - Cured	0.936	cm³/g	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Weight: 1.0		
Hardener	Mix Ratio by Volume: 11		
	Mix Ratio by Volume: 100		
Resin	Mix Ratio by Weight: 10		
Shelf Life	26	wk	
Thermoset Mix Viscosity	65000 to 80000	cP	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- 1	Blue		
-- 2	Off White		
Viscosity			
-- 3	0.30 to 0.40	Pa·s	

-- ⁴	120 to 140	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 ⁵	18 to 26		
Shore A ⁶	21 to 29		
Tensile Strength	3.45 to 3.79	MPa	ASTM D412
Tensile Elongation at Break	380 to 430	%	ASTM D412
Tear Strength	21.9 to 27.1	kN/m	ASTM D624

NOTE

- | | |
|----|-----------|
| 1. | Activator |
| 2. | Base |
| 3. | Activator |
| 4. | Base |
| 5. | 1 Day |
| 6. | 7 Days |

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