

RTV-2 GI-1210

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

GI-1210 is a high tear strength, tin-catalyzed RTV-2 silicone rubber, which was designed for casting polyester parts. GI-1210 is especially good for molds with deep undercuts and for molds that require flexing for part removal. GI-1210 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-1210 is extremely useful for those applications where superior elongation and medium durometer 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/cm³	
Shrinkage - Cured	0.10	%	
Service Temperature - Cured	-51 to 171	°C	
Coverage - Cured	0.925	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 Weight: 10		
Resin	Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity ¹	5000 to 10000	cP	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ²	Blue		
-- ³	Off White		
Viscosity			
-- ⁴	0.30 to 0.40	Pa·s	
-- ⁵	10 to 20	Pa·s	

Curing Time	16 to 18	hr	
Pot Life ⁶	60 to 120	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness			
Shore A ⁷	1 to 9		
Shore A ⁸	6 to 14		
Tensile Strength	1.72 to 2.07	MPa	ASTM D412
Tensile Elongation at Break	430 to 480	%	ASTM D412
Tear Strength	11.4 to 14.9	kN/m	ASTM D624

NOTE

- | | |
|----|-----------|
| 1. | Mixed |
| 2. | Activator |
| 3. | Base |
| 4. | Activator |
| 5. | Base |
| 6. | Mixed |
| 7. | 1 Day |
| 8. | 7 Days |

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