RTV-2 GI-1220

Silicone Rubber, RTV-2 Silicones, Inc.

Message:

GI-1220 is a high tear strength, tin-catalyzed RTV-2 silicone rubber, which was designed for casting polyester parts. GI-1220 is especially good for molds with deep undercuts and for molds that require flexing for part removal. GI-1220 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 beaccelerated 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-1220 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		
Hardener	Mix Ratio by Volume: 11		
Hardener	Mix Ratio by Volume: 11 Mix Ratio by Weight: 10		
Hardener			
Hardener			
	Mix Ratio by Weight: 10	wk	
Resin Shelf Life	Mix Ratio by Weight: 10 Mix Ratio by Volume: 100	wk cP	
Resin Shelf Life Thermoset Mix Viscosity ¹	Mix Ratio by Weight: 10 Mix Ratio by Volume: 100 26		Test Method
Resin Shelf Life Thermoset Mix Viscosity ¹ Uncured Properties	Mix Ratio by Weight: 10 Mix Ratio by Volume: 100 26 15000 to 25000	сР	Test Method
Resin Shelf Life Thermoset Mix Viscosity ¹ Uncured Properties	Mix Ratio by Weight: 10 Mix Ratio by Volume: 100 26 15000 to 25000	сР	Test Method
Resin Shelf Life Thermoset Mix Viscosity ¹ Uncured Properties Color	Mix Ratio by Weight: 10 Mix Ratio by Volume: 100 26 15000 to 25000 Nominal Value	сР	Test Method
Resin Shelf Life Thermoset Mix Viscosity ¹ Uncured Properties Color ²	Mix Ratio by Weight: 10 Mix Ratio by Volume: 100 26 15000 to 25000 Nominal Value Blue	сР	Test Method
Resin Shelf Life Thermoset Mix Viscosity ¹ Uncured Properties Color ² ³	Mix Ratio by Weight: 10 Mix Ratio by Volume: 100 26 15000 to 25000 Nominal Value Blue	сР	Test Method

Curing Time	16 to 18	hr	
Pot Life ⁶	90 to 150	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness			
Shore A ⁷	11 to 19		
Shore A ⁸	16 to 24		
Tensile Strength	2.52 to 2.86	MPa	ASTM D412
Tensile Elongation at Break	450 to 500	%	ASTM D412
Tear Strength	14.9 to 18.4	kN/m	ASTM D624
NOTE			
NOTE 1.	Mixed		
	Mixed Activator		
1.			
1. 2.	Activator		
1. 2. 3.	Activator Base		
1. 2. 3. 4.	Activator Base Activator		
1. 2. 3. 4. 5.	Activator Base Activator Base		

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