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		
	Mix Ratio by Weight: 10		
Resin	Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity [1]	15000 to 25000	cP	
Uncured Properties	**Nominal Value**	**Unit**	**Test Method**
Color			
-- [2]	Blue		
-- [3]	White		
Viscosity			
-- [4]	0.30 to 0.40	Pa·s	
-- [5]	30 to 40	Pa·s	

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

Recommended distributors for this material

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