

RTV-2 P-20B

Silicone Rubber, RTV-2

Silicones, Inc.

Message:

P-10, P-15 and P-20 RTV silicone rubbers are two-component, platinum-catalyzed systems that cure at room temperature. All of these materials have low viscosity, high elongation, high tear strength and low durometer. They are easy to mix and de-air, and will cure with virtually no shrinkage. The speed at which the rubber hardens can be dramatically accelerated with heat or with Pt Accelerator at room temperature. Addition-cure two-component silicone rubbers exhibit excellent chemical and heat resistance, but may show inhibition sensitivity. P-10, P-15 and P-20 offer excellent release properties and are extremely useful for casting complex shapes, animatronic skins, or any application where exceptional flexibility and tear resistance are required.

General Information			
Features	Good Chemical Resistance		
	Good Flexibility		
	Good Tear Strength		
	High Heat Resistance		
	Low Hardness		
	Low Viscosity		
Forms	Liquid		
Physical	Nominal Value	Unit	
Specific Gravity	1.08	g/cm³	
Thermal	Nominal Value	Unit	
Service Temperature - Cured	-51 to 288	°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: 1:1		
	Mix Ratio by Weight: 1:0		
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	Translucent		
Viscosity ³	25 to 35	Pa · s	
Curing Time	16 to 18	hr	
Pot Life	60 to 120	min	

Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness			
Shore A ⁴	16 to 24		
Shore A ⁵	18 to 26		
Tensile Strength	3.28 to 3.96	MPa	ASTM D412
Tensile Elongation at Break	380 to 480	%	ASTM D412
Tear Strength	16.6 to 25.4	kN/m	ASTM D624

NOTE

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

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