

BJB Silicone TC-5024 A/B

Silicone

BJB Enterprises, Inc.

Message:

TC-5024 A/B is a two-component, room temperature curing silicone elastomer. This system is designed primarily for making molds, but is also used for gaskets as well as a wide variety of parts. This product is a condensation cured system using a tin catalyst that provides a 60-minute work time with a 4-6 hour demold time.

General Information			
Features	Good Dimensional Stability		
	Good Tear Strength		
Uses	Gaskets		
	High Temperature Applications		
	Molds/Dies/Tools		
Appearance	Blue		
	Opaque		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Specific Gravity			
	Part A	1.217	g/cm ³
	Part B	0.998	g/cm ³
Shrinkage	0.25	%	ASTM D2566
Demold Time (25°C)	4.0 to 6.0	hr	
Gel Time	1.5	hr	
Work Time (25°C) ¹	1.0	hr	
Brookfield Viscosity			
	Mixed : 25°C	31.0	Pa · s
	Part A : 25°C	61.0	Pa · s
	Part B : 25°C	0.0600	Pa · s
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	20 to 30		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
	100% Strain	0.303	MPa
	200% Strain	0.993	MPa
	300% Strain	1.93	MPa
Tensile Strength (Yield)	4.07	MPa	ASTM D412

Tensile Elongation (Break)	350	%	ASTM D412
Tear Strength	19.3	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 10, Mix Ratio by Volume: 12		
Shelf Life	26	wk	
NOTE			
1.	100g		

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