

BJB Silicone TC-5050 A/B

Silicone

BJB Enterprises, Inc.

Message:

TC-5050 A/B is a room temperature, addition/platinum curing silicone rubber designed for mold making, encapsulation applications, pressure pads, gaskets, and various types of parts. It is also used to make molds for casting low melting metals into. With the use of talc powder as an interface the TC-5050 A/B has been used in production with cast metal temperatures running 650°F (344°C) and has been subject to temperatures up to 850°F (454°C) for making a limited number of casts. With the ability to withstand high temperatures the TC-5050 A/B works very well as a mask for metal spraying and welding operations.

General Information			
Uses	Gaskets		
	Molds/Dies/Tools		
Appearance	Blue		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Part A	1.227	g/cm ³	ASTM D2566
Part B	0.988	g/cm ³	
Shrinkage	Nil		
Demold Time (25°C)	1.0	day	
Gel Time	1.0	hr	
Heat Cure (66°C)	2.0 to 4.0	hr	
Work Time (25°C)	30.0	min	
Brookfield Viscosity			
Mixed : 25°C	90.0	Pa · s	
Part A : 25°C	121	Pa · s	
Part B : 25°C	0.490	Pa · s	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	45 to 55		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4.27	MPa	ASTM D412
Tensile Elongation (Break)	330	%	ASTM D412
Tear Strength ¹	15.2	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM E831
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 10		

Shelf Life	26	wk
NOTE		
1.	Die B	

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