

BJB Silicone TC-5005 A/B

Silicone

BJB Enterprises, Inc.

Message:

TC-5005 A/B is a room temperature curing silicone elastomer intended primarily for making silicone skins, but is also used as a general purpose rubber. This product is a condensation cured system using a tin catalyst that provides a 40-60 minute work time with a 16-24 hour demold time. If a softer product is required, refer to the TC-5505 A/B-C data bulletin. TC-5005 "C" can be added to extend the elongation and hardness of the TC-5005 A/B.

Product Highlights:

- Low viscosity and easily poured
- Can be used in many high-temperature applications.
- Translucent in color
- High elongation

General Information			
Features	General Purpose		
	High Elongation		
	Low Viscosity		
Appearance	Translucent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Specific Gravity			
Part A	1.09		
Part B			
Shrinkage	Negligible		ASTM D2566
Demold Time	16.0 to 24.0	hr	
Work Time ¹	40.0 to 60.0	min	
Brookfield Viscosity			
Mixed : 25°C	15.3	Pa · s	
Part A : 25°C	28.0	Pa · s	
Part B : 25°C	0.0550	Pa · s	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	5 to 15		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3.27	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength ²	8.23	kN/m	ASTM D624
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.	1 lb mass	
2.	Die B	

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