

BJB Silicone TC-5005 A/B-C

Silicone

BJB Enterprises, Inc.

Message:

TC-5005 A/B-C 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 1.5-2 hour work time with 16-24 hour demold time.

Product Highlights:

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

General Information			
Features	High Elongation		
	High Heat Resistance		
	Low Viscosity		
Uses	Artificial Skin		
	General Purpose		
Appearance	Translucent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	0.968	g/cm ³	
-- ²	0.988	g/cm ³	
-- ³	1.09	g/cm ³	
--	1.05	g/cm ³	ASTM D792
Shrinkage	Negligible		ASTM D2566
Work Time ⁴ (25°C)	1.5 to 2.0	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore OO)	5 to 15		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	0.938	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Tear Strength ⁵	2.28	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 10		
Shelf Life	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C ⁶	28000	cP	

25°C ⁷	95.0	cP
25°C	2750	cP
25°C ⁸	55.0	cP
Demold Time	960 to 1400	min

NOTE

- | | |
|----|------------|
| 1. | Part C |
| 2. | Part B |
| 3. | Part A |
| 4. | 1 lb. mass |
| 5. | Die B |
| 6. | Part A |
| 7. | Part C |
| 8. | Part B |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

