

BJB Polyurethane SP-47 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

SP-47 A/B is a two-component flexible polyurethane designed to provide excellent physical properties as a spray applied elastomer. The SP-47 A/B can be used as either a fast flexible mold material or applied as an elastomeric top coat where a smooth air side surface is desired. It can be sprayed with a hand held plural component pneumatic dispense gun with a spray adapter such as BJB's CPE-25 or CPE-40. For larger industrial applications, this system can also be sprayed with conventional plural component high pressure spray equipment such as BJB's CPE-600.

PRODUCT HIGHLIGHTS:

Provides very rapid production of parts, composite structures, and molds.

Good adhesion to a wide variety of substrates, most notably rigid foams and wood.

Provides very fine detail reproduction.

Convenient 1:1 by volume mix ratio.

Non-mercury

General Information			
Features	Good Adhesion		
	Good Flexibility		
Appearance	Clear/Transparent		
	Yellow		
Forms	Liquid		
Processing Method	Spraying		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.02	g/cm ³	
--	1.06	g/cm ³	
-- ²	1.09	g/cm ³	
Specific Volume	0.950	cm ³ /g	
Gel Time	40.0 to 45.0	sec	
Tack Free Time	5.0 to 10.0	min	
Work Time ³ (25°C)	20.0 to 25.0	sec	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	45 to 50		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5.32	MPa	ASTM D412
Tensile Elongation (Break)	530	%	ASTM D412
Tear Strength	13.7	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 94, Mix Ratio by Volume: 100		

Shelf Life	26	wk	
Thermoset Mix Viscosity			ASTM D2393
25°C ⁴	1300	cP	
25°C ⁵	525	cP	
25°C ⁶	900	cP	
Demold Time (25°C)	10 to 20	min	
Post Cure Time	48 to 72	hr	

NOTE

- | | |
|----|--------------------|
| 1. | Part B |
| 2. | Part A |
| 3. | 100g mass |
| 4. | Part B, Brookfield |
| 5. | Part A, Brookfield |
| 6. | Mixed, Brookfield |

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