BJB Polyurethane SP-200 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

SP-200 A/B is a two component rigid polyurethane material designed to provide high strength, high impact, and good heat resistance for the fabrication of structural parts, composite type structures, and for coatings that serve many purposes. During the spray application, coating thickness builds quickly due to the 97% solids composition of the system. SP-200 A/B bonds readily to itself during build-up and it shows excellent bonding results sprayed against other plastics, wood, and metals. The SP-200 A/B has an extremely low V.O.C. content. The volatile organic compounds (V.O.C.) contained in the mixed A and B components total less than 40 grams per liter. This translates into a great advantage for compliance with health, safety, and environmental programs. SP-200 A/B can be sprayed with conventional plural component high pressure spray equipment or with BJB's CPE-25 and CPE-40 pneumatic hand held spay guns.

Product Highlights:

Provides very rapid production of parts, composite structures, and molds Provides excellent surface finishes built on polyurethane rigid foam and styrofoam Superior adhesion to a wide variety of substrates, most notably rigid foams and wood Excellent impact resistance coupled with high flexural strength Provides very fine detail reproduction Convenient 1:1 by volume mix ratio

General Information				
Features	High strength			
	Impact resistance, high			
	Good adhesion			
	Excellent appearance			
Uses	Coating application			
Appearance	Light gray			
Forms	Liquid			
Processing Method	Sprayable			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity				
1	1.04	g/cm³		
2	1.19	g/cm³		
	1.06	g/cm³	ASTM D792	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	76 - 80		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength (Yield)	35.0	MPa	ASTM D638	
Tensile Elongation (Yield)	17	%	ASTM D638	
Flexural Modulus	1720	MPa	ASTM D790	
Flexural Strength	62.7	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Unnotched Izod Impact	49	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	

		ASTM D648
88.9	°C	ASTM D648
82.2	°C	ASTM D648
Nominal Value	Unit	Test Method
Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Mixing ratio by weight: 90, mixing ratio by capacity: 100		
26	wk	
		Brookfield
1350	cP	Brookfield
550	cP	Brookfield
30 - 45	min	
30.0	sec	
2.0 - 3.0	day	
Nominal Value	Unit	Test Method
	82.2 Nominal Value Mixing ratio by weight: 100, mixing Mixing ratio by weight: 90, mixing 26 1350 550 30 - 45 30.0 2.0 - 3.0	82.2 °C Nominal Value Unit Mixing ratio by weight: 100, mixing ratio by capacity: 100 Mixing ratio by weight: 90, mixing ratio by capacity: 100 26 wk 1350 cP 550 cP 30 - 45 min 30.0 sec 2.0 - 3.0 day

Note: Physical properties obtained from test specimens post cured per recommended procedure. After demolding, allow parts to further cure at room temperature for 2 to 4 hours. It is recommended that parts be post-cured at 120-130°F (49-54°C) for 2 - 4 hours, followed by 4 - 6 hours at 180 \pm 10°F (82 °C). Support may be needed for certain configurations during this process.

NOTE	
1.	Part B
2.	Part A
3.	Part B
4.	Part A
5.	1/8" thick

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