

# BJB Polyurethane ST-1060 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

ST-1060 A/B is a multi purpose elastomer that can perform many functions. Special product characteristics are:  
Does not contain MOCA, MDA, or MDI  
Easy to use  
Cures at room temperature to produce a strong, resilient elastomer  
Exudate and volatile free  
Maintains a dry, tack free surface after cure

General Information			
Features	Good tear strength		
RoHS Compliance	RoHS compliance		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- <sup>1</sup>	1.02	g/cm <sup>3</sup>	ASTM D792
--	1.05	g/cm <sup>3</sup>	ASTM D792
-- <sup>2</sup>	1.08	g/cm <sup>3</sup>	ASTM D792
Specific Volume	0.950	cm <sup>3</sup> /g	
Gel Time	35.0	min	
Work Time <sup>3</sup> (25°C)	25.0	min	
Cure Time (25°C)	5.0 - 7.0	day	
Molding Shrinkage - Flow	0.60	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	55 - 65		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	2.07	MPa	ASTM D412
200% strain	3.07	MPa	ASTM D412
300% strain	3.86	MPa	ASTM D412
Tensile Strength (Break)	6.21	MPa	ASTM D412
Tensile Elongation (Break)	590	%	ASTM D412
Tear Strength	21.0	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Component a	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Component B	Mixing ratio by weight: 55, mixing ratio by capacity: 58		
Shelf Life	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C <sup>4</sup>	690	cP	Brookfield

25°C <sup>5</sup>	10000	cP	Brookfield
25°C	4750	cP	Brookfield
Demold Time (25°C)	360 - 480	min	
Additional Information	Nominal Value	Unit	Test Method

In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 77°F (25°C), followed by 16 hours at 160°F (71°C).

#### NOTE

- |    |           |
|----|-----------|
| 1. | Part B    |
| 2. | Part A    |
| 3. | 100g mass |
| 4. | Part B    |
| 5. | Part A    |

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