

# BJB Polyurethane LS-40 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

LS-40 A/B has been developed to provide a 40 Shore A elastomer that has good tensile strength with great elongation and excellent recovery. The LS-40 A/B system produces tough, durable products that are suitable for many applications.

PRODUCT HIGHLIGHTS:

- Easy to use
- Room temperature mixing and curing
- Excellent hydrolytic stability

General Information			
Features	Durable		
	Good Toughness		
	High Elongation		
	High Tensile Strength		
	Hydrolytically Stable		
Appearance	Clear/Transparent		
	Yellow		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- <sup>1</sup>	1.02	g/cm <sup>3</sup>	
--	1.04	g/cm <sup>3</sup>	
-- <sup>2</sup>	1.07	g/cm <sup>3</sup>	
Specific Volume	0.961	cm <sup>3</sup> /g	
Gel Time	50.0	min	
Work Time <sup>3</sup> (25°C)	30.0	min	
Molding Shrinkage - Flow	0.50	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	35 to 45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5.02	MPa	ASTM D412
Tensile Elongation (Break)	930	%	ASTM D412
Tear Strength	18.6	kN/m	ASTM D624
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	6.42		ASTM D150
Dissipation Factor (1 MHz)	0.058		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 95	
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100	
Shelf Life	26	wk
Thermoset Mix Viscosity	ASTM D2393	
25°C <sup>4</sup>	250	cP
25°C <sup>5</sup>	2150	cP
25°C <sup>6</sup>	1050	cP
Demold Time (25°C)	720 to 960	min
Post Cure Time (25°C)	120 to 170	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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