

# BJB Polyurethane F-50 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

The F-50 A/B is a 55 Shore A production-oriented polyurethane system. This material features quick demold times, excellent physical properties and a non-mercury based catalyst. F-50 A/B processes at ambient temperatures and is easily colored.

General Information				
Features	Good Colorability			
	Good Mold Release			
	Good Tear Strength			
	Ultra High Toughness			
Appearance	Transparent - Slight Yellow			
Forms	Liquid			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity				
-- <sup>1</sup>	1.03	g/cm <sup>3</sup>	ASTM D792	
--	1.07	g/cm <sup>3</sup>		
-- <sup>2</sup>	1.13	g/cm <sup>3</sup>		
Molding Shrinkage - Flow	0.10	%	ASTM D2566	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A)	50 to 60		ASTM D2240	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress			ASTM D412	
100% Strain	1.03	MPa		
200% Strain	1.90	MPa		
300% Strain	2.69	MPa		
Tensile Strength (Yield)	5.83	MPa	ASTM D412	
Tensile Elongation (Break)	430	%	ASTM D412	
Tear Strength	16.6	kN/m	ASTM D624	
Thermoset	Nominal Value	Unit	Test Method	
Thermoset Components				
Part A	Mix Ratio by Weight: 50, Mix Ratio by Volume: 46			
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100			
Shelf Life (25°C)	26	wk	ASTM D2393	
Thermoset Mix Viscosity				
25°C <sup>3</sup>	850	cP		
25°C <sup>4</sup>	550	cP		
25°C <sup>5</sup>	930	cP		

Demold Time (25°C)	120 to 180	min
Post Cure Time (71°C)	16	hr
Gel Time	9.0 to 10.0	min
Work Time <sup>6</sup> (25°C)	7.0 to 8.0	min

#### NOTE

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

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#### Recommended distributors for this material

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