

# BJB Polyurethane WC-540 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

WC-540 A/B is a two-part, water clear, colorless aliphatic based polyurethane elastomer. It is recommended for use whenever a flexible, permanently transparent elastomer is required. It is UV light and oxidation resistant and can be easily tinted or pigmented to clean bright colors. WC-540 A/B does not contain MOCA, TDI or MDA. In addition to being an excellent castable product, it also functions well as a solvent-free adhesive for bonding various substrates.

General Information			
Features	Aliphatic		
	Bondability		
	Good Colorability		
	Good Flexibility		
Uses	Adhesives		
	Bonding		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- <sup>1</sup>	1.02	g/cm <sup>3</sup>	
--	1.06	g/cm <sup>3</sup>	
-- <sup>2</sup>	1.08	g/cm <sup>3</sup>	
Specific Volume	0.950	cm <sup>3</sup> /g	
Gel Time	30.0	min	
Work Time <sup>3</sup> (25°C)	20.0	min	
Molding Shrinkage - Flow	0.10	%	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 (Yield)	2.69	MPa	ASTM D412
Tensile Elongation (Break)	300	%	ASTM D412
Tear Strength <sup>4</sup>	7.53	kN/m	ASTM D624
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	4.13		ASTM D150
Dissipation Factor (1 MHz)	0.095		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Part A	Mix Ratio by Weight: 50, Mix Ratio by Volume: 48	
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100	
Shelf Life	26	wk
Thermoset Mix Viscosity	ASTM D2393	
25°C <sup>5</sup>	910	cP
25°C <sup>6</sup>	375	cP
25°C <sup>7</sup>	2120	cP
Demold Time (25°C)	480 to 720	min
Post Cure Time (25°C)	120 to 170	hr

#### NOTE

- |    |           |
|----|-----------|
| 1. | Part B    |
| 2. | Part A    |
| 3. | 100g mass |
| 4. | Die C     |
| 5. | Mixed     |
| 6. | Part B    |
| 7. | Part A    |

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