

# BJB Polyurethane WC-792 A/B

Polyurethane  
BJB Enterprises, Inc.

Message:

WC-792 A/B is an impact resistant, rigid, 84 Shore D aliphatic polyurethane that is commonly used to make clear or tinted castings of all kinds. Note: WC-792 A/B requires post-curing. Thin section casts, less than 1/2" thick, may require in mold post-curing.

Product Highlights:

- Exceptional clarity
- Excellent impact strength
- 15 minute standard working time with six additional work speeds available
- No odor
- Good weatherability, non-yellowing all aliphatic
- Excellent heat resistance
- UV light and oxidation resistance

General Information			
Features	Good Impact Resistance		
	Good UV Resistance		
	Good Weather Resistance		
	High Clarity		
	High Heat Resistance		
	Low to No Odor		
	Oxidation Resistant		
Uses	Computer Components		
	Modeling Material		
	Prototyping		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm <sup>3</sup>	ASTM D792
Specific Gravity			
Part A	1.077	g/cm <sup>3</sup>	
Part B	1.037	g/cm <sup>3</sup>	
Shrinkage <sup>1</sup>	0.60	%	
Compressive Strength	70.2	MPa	ASTM D695
Demold Time (25°C)	16.0 to 24.0	hr	
Work Time (25°C) <sup>2</sup>	15.0 to 20.0	min	
Brookfield Viscosity			
Mixed : 25°C	600 to 700	mPa · s	
Part A : 25°C	600 to 700	mPa · s	

Part B : 25°C	750	mPa · s	
Cure Time (23°C) <sup>3</sup>	5.0 to 7.0	day	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82 to 86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1860	MPa	ASTM D638
Tensile Strength (Yield)	57.2	MPa	ASTM D638
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	77.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	79.4	°C	ASTM D648
Optical	Nominal Value		Test Method
Refractive Index	1.490		ASTM D542
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 75, Mix Ratio by Volume: 78		
Shelf Life	26	wk	
NOTE			
1.	12"x1/2"x1/2"		
2.	100g		
3.	Product is sufficiently cured after one day, ambient, for general handling. Post curing for 16 hours at 160 to 180°F is recommended. Cure inhibited if cast against a tin catalyzed silicone RTV.		

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#### Recommended distributors for this material

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