

BJB Polyurethane WC-786 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

WC-786 A/B produces a high impact, rigid, 80 Shore D material that is commonly used to make clear or tinted castings of all kinds. When used at room temperature castings 1/8" thick or larger can be readily cast. Castings that are less than 1/8" thick generally require pre-warming of materials, molds, and mild post-cure. Easy 1:1 by volume mix ratio for machine casting.

Product Highlights:

- Exceptional clarity
- Very high impact rigid material
- 15-minute standard working time with six additional work speeds available
- No odor
- UV light and oxidation resistance
- Good weatherability, non-yellowing

General Information			
Features	Antioxidation		
	Impact resistance, high		
	Good UV resistance		
	Good weather resistance		
	The smell is low to none		
	Definition, high		
Appearance	Clear/transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Part A	1.077	g/cm ³	
Part B	1.027	g/cm ³	
Contractility (1.27cm) ¹	0.50	%	
Demold Time (25°C)	6.0 - 8.0	hr	
Work Time (25°C) ²	15.0	min	
Brokfield Viscosity			
Mixed : 25°C	550 - 650	mPa·s	
Part A : 25°C	650	mPa·s	
Part B : 25°C	550	mPa·s	
Cure Time (25°C)	5.0 - 7.0	day	
Density	1.05	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	78 - 82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.6	MPa	ASTM D638

Tensile Elongation (Yield)	11 - 15	%	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Flexural Strength	49.6	MPa	ASTM D790
Compressive Modulus	1900	MPa	ASTM D695
Compressive Strength	49.3	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	36	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	62.8	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Components			
Component a	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Component B	Mixing ratio by weight: 96, mixing ratio by capacity: 100		
Shelf Life	26	wk	
Additional Information	Nominal Value	Unit	

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 150-180°F (66-82°C). Support of the part may be required to prevent part deformation during heat cure.

NOTE

1.
- 12"x1/2"x1/2"
- 100g mass - The 15-minute work time is the standard in-stock product. Products with 5, 30, 60, 90,180, and 240-minute work times are availableon a special order basis.
2.

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