

BJB Polyurethane WC-788 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

WC-788 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-788 A/B requires post-curing. Thin section casts, less than 1/2" thick, may require in mold post-curing.

Product Highlights:

- Colorless with 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

General Information			
Features	Impact resistance, good		
	Good weather resistance		
	Heat resistance, high		
	The smell is low to none		
	Definition, high		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Specific Gravity			
Part A	1.077	g/cm ³	
Part B	1.037	g/cm ³	
Shrinkage ¹	0.60	%	
Demold Time (25°C)	16.0 - 24.0	hr	
Work Time (25°C) ²	15.0 - 20.0	min	
Brokfield Viscosity			
Mixed : 25°C	600 - 700	mPa · s	
Part A : 25°C	650	mPa · s	
Part B : 25°C	750	mPa · s	
Cure Time (25°C)	5.0 - 7.0	day	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82 - 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
Notched 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 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: 75, mixing ratio by capacity: 78		
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 15-20 minute work time is the standard in-stock product. Products with 5, 30, 60, 90, 180 and 240 minute work times are available on a special order basis.		
2.			

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