

BJB Polyurethane WC-780 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

WC-780 A/B is an impact resistant, rigid, 82 Shore D material that is commonly used to make clear or tinted castings of all kinds. When used at room temperature, castings 1" thick or larger can be readily cast.

PRODUCT HIGHLIGHTS:

Water clear with exceptional clarity

Impact resistant

3 hour working time with three additional work speeds available

No odor

Good weatherability

General Information			
Features	Good Color Stability		
	Good Weather Resistance		
	High Clarity		
	High Impact Resistance		
	Low to No Odor		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.03	g/cm ³	
--	1.05	g/cm ³	
-- ²	1.08	g/cm ³	
Specific Volume	0.954	cm ³ /g	
Work Time ³ (25°C)	3.0	hr	
Molding Shrinkage - Flow	0.40	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80 to 84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1790	MPa	ASTM D638
Tensile Strength (Yield)	45.9	MPa	ASTM D638
Tensile Elongation (Yield)	65	%	ASTM D638
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Compressive Modulus	2410	MPa	ASTM D695
Compressive Strength	57.6	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	70.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 85, Mix Ratio by Volume: 89		
Shelf Life	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C ⁴	750	cP	
25°C ⁵	650	cP	
25°C ⁶	600 to 700	cP	
Demold Time (25°C)	1400	min	
Post Cure Time (25°C)	120 to 170	hr	
NOTE			
1.	Part B		
2.	Part A		
3.	100g mass, stock product		
4.	Part B		
5.	Part A		
6.	Mixed		

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