

BJB Polyurethane WC-756 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

WC-756 A/B is a two part, clear, 55 Shore D castable urethane that is commonly used to make clear or tinted parts of all kinds. When used at room temperature, castings 1/ 4 " thick or larger can be readily cast. Castings that are less than 1/ 4 " thick generally require a mild post-cure.

PRODUCT HIGHLIGHTS:

- Exceptional clarity, UV and oxidation resistant
- Tough and impact resistant
- 15 minute working time
- No odor, solvents or exudates
- Good exterior weatherability

General Information			
Features	Good Impact Resistance		
	Good Toughness		
	Good UV Resistance		
	Good Weather Resistance		
	High Clarity		
	Low to No Odor		
	Oxidation Resistant		
Appearance	Clear/Transparent		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D792
Specific Gravity			
Part A	1.077	g/cm³	
Part B	1.017	g/cm³	
Specific Volume	0.961	cm³/g	
Gel Time	25.0	min	
Work Time (25°C) ¹	15.0	min	
Brookfield Viscosity			
Mixed : 25°C	850	mPa · s	
Part A : 25°C	650	mPa · s	
Part B : 25°C	675	mPa · s	
Molding Shrinkage - Flow	0.86	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50 to 60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	97.9	MPa	ASTM D638
Tensile Strength (Yield)	14.7	MPa	ASTM D638

Tensile Elongation (Yield)	720	%	ASTM D638
Flexural Modulus	142	MPa	ASTM D790
Flexural Strength	3.34	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	50.3	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	880	J/m	ASTM D256
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	3.51		ASTM D150
Dissipation Factor (1 MHz)	0.046		ASTM D150
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 65, Mix Ratio by Volume: 62		
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Demold Time (25°C)	960 to 1400	min	
NOTE			
1.	100g mass		

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