

BJB Polyurethane WC-765 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

WC-765 A/B is a two part, clear, colorless 65 Shore D urethane castable product that is commonly used to make clear or tinted parts 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 a mild post-cure. This product may exhibit a slight yellowing or color change when exposed to direct UV light.

General Information			
Features	Good Impact Resistance		
	Good Toughness		
	Good Weather Resistance		
	High Clarity		
	Low to No Odor		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Specific Gravity			
Part A	1.077	g/cm ³	
Part B	1.027	g/cm ³	
Shrinkage	0.40	%	ASTM D2566
Demold Time (24°C)	6.0 to 8.0	hr	
Gel Time	20.0	min	
Work Time (25°C) ¹	15.0	min	
Brookfield Viscosity			
Mixed : 25°C	600 to 700	mPa · s	
Part A : 25°C	650	mPa · s	
Part B : 25°C	550	mPa · s	
Molding Shrinkage - Flow	0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60 to 70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	214	MPa	ASTM D638
Tensile Strength (Yield)	31.7	MPa	ASTM D638
Tensile Elongation (Yield)	230	%	ASTM D638
Flexural Modulus	200	MPa	ASTM D790
Flexural Strength	2.17	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method

Tear Strength	80.6	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	480	J/m	ASTM D256
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 75, Mix Ratio by Volume: 72		
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Shelf Life	26	wk	
NOTE			
1.	100 g mass		

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