

BJB Polyurethane WC-766 A/B

Polyurethane

BJB Enterprises, Inc.

Message:

WC-766 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.

Product Highlights:

Exceptional clarity, UV and oxidation resistant

Tough and impact resistant

15-20 minute working time

No odor, solvents or exudates

Good exterior weatherability

General Information			
Features	Antioxidation		
	Impact resistance, good		
	Good UV resistance		
	Good weather resistance		
	The smell is low to none		
	Definition, high		
	Good toughness		
Uses	Transparent or Translucent Accessories		
RoHS Compliance	RoHS compliance		
Appearance	Colorless		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.03	g/cm ³	
-- ²	1.08	g/cm ³	ASTM D792
Shrinkage	0.40	%	ASTM D2566
Gel Time	20.0	min	
Work Time ³ (25°C)	15.0	min	
Cure Time (25°C)	5.0 - 7.0	day	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60 - 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 (Break)	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	Test Method
Thermoset Components			
Component a	Mixing ratio by weight: 75, mixing ratio by capacity: 72		
Component B	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C ⁴	650	cP	Brookfield
25°C ⁵	550	cP	Brookfield
25°C	600 - 700	cP	Brookfield
Demold Time (25°C)	360 - 480	min	
Additional Information	Nominal Value	Unit	Test Method

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 180°F (82°C). Support of the part may be required to prevent part deformation during the heat curing process.

NOTE

1. Part B
2. Part A
3. 100g mass
4. Part A
5. Part B

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