

BJB Polyurethane WC-775 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

WC-775 A/B produces a high impact rigid 75 Shore D material that is commonly used to make clear or tinted castings 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 will generally require a mild post-cure. This product may exhibit a slight yellowing or color change when exposed to direct UV light.

PRODUCT HIGHLIGHTS:

- Exceptional clarity
- No odor
- Impact resistant
- Good weather ability
- 15 minute work time

General Information			
Features	Good Weather Resistance		
	High Clarity		
	High Impact Resistance		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.03	g/cm ³	
-- ²	1.08	g/cm ³	
--	1.09	g/cm ³	
Specific Volume	0.961	cm ³ /g	
Gel Time	20.0	min	
Work Time (25°C) ³	15.0	min	
Brookfield Viscosity			
Mixed : 25°C	600 to 700	mPa · s	
Part A : 25°C	650	mPa · s	
Part B : 25°C	400	mPa · s	
Molding Shrinkage - Flow	0.50	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	76 to 80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1860	MPa	ASTM D638
Tensile Strength	47.6	MPa	ASTM D638
Tensile Elongation (Yield)	62	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Flexural Strength	54.5	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	62	J/m	ASTM D256
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 95, Mix Ratio by Volume: 91		
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Demold Time (25°C)	960 to 1400	min	
Post Cure Time (25°C)	120 to 170	hr	
NOTE			
1.	Part B		
2.	Part A		
3.	100g mass		

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