

BJB Polyurethane WC-782 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

WC-782 A/B is an impact resistant, rigid, 82 Shore D material that is commonly used to make clear or tinted castings of all kinds. Parts that are 1/8" thick or greater can be easily cast at room temperature. Thinner sections generally require pre warming of the material, molds, and a post cure.

General Information			
Features	Good Impact Resistance		
	Good Weather Resistance		
	High Clarity		
	Low to No Odor		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Specific Gravity			
Part A	1.077	g/cm ³	
Part B	1.037	g/cm ³	
Shrinkage ¹	0.30	%	
Demold Time (25°C)	6.0 to 8.0	min	
Work Time (25°C) ²	15.0	min	
Brookfield Viscosity			
Mixed : 25°C	600 to 700	mPa · s	
Part A : 25°C	550 to 650	mPa · s	
Part B : 25°C	550	mPa · s	
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	
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: 88		
Shelf Life	26	wk	
NOTE			
1.	12"x1/2"x1/2"		
2.	100g mass		

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