

# BJB Polyurethane TC-891 A/B

Polyurethane  
BJB Enterprises, Inc.

Message:

TC-891 A/B incorporates a non-mercury based catalyst system that produces a tough 80 shore D material with a 12-minute work time. This system can be used to hand pour large electronic housing, models of all kinds, and point of purchase items. This system is also available in a 20-minute work time (TC-892), and a 5-minute work time (TC-890).

General Information			
Features	Good Flow		
	Low Viscosity		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Opaque		
	White		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm <sup>3</sup>	ASTM D792
Specific Gravity			
Part A	1.18		
Part B	1.04		
Color			
Part A	Yellow		
Part B	White		
Gel Time	17.0	min	
Work Time (25°C) <sup>1</sup>	12.0	min	
Brookfield Viscosity			
Mixed : 25°C	725	mPa · s	
Part A : 25°C	325	mPa · s	
Part B : 25°C	830	mPa · s	
Molding Shrinkage - Flow <sup>2</sup> (12.7 mm)	0.30	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	78 to 82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength	52.4	MPa	ASTM D638

Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	90.6	°C	
1.8 MPa, Unannealed	80.6	°C	
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 88		
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Shelf Life	26	wk	
Demold Time (25°C)	180 to 240	min	
Post Cure Time (82°C)	16	hr	
NOTE			
1.	100 g mass		
2.	12x0.5x0.5 in		

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