

# BJB Polyurethane TC-891 A/B FR

Polyurethane  
BJB Enterprises, Inc.

Message:  
TC-891 A/B FR 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.

General Information			
UL YellowCard	E174527-609643		
Features	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical housing		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1810	MPa	ASTM D638
Tensile Strength	44.1	MPa	ASTM D638
Tensile Elongation (Break)	4.6	%	ASTM D638
Flexural Modulus	2270	MPa	ASTM D790
Flexural Strength	78.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	90.6	°C	ASTM D648
1.8 MPa, not annealed	83.9	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	Test Method
Shelf Life	26	wk	
Thermoset Mix Viscosity (25°C)	975	cP	ASTM D2393
Demold Time (25°C)	180 - 240	min	
Post Cure Time (82°C)	16	hr	
Additional Information			

Shrinkage linear, 12" x 0.5" x 0.5": 0.004 in/inMix ratio by weight: 70/100Mix ratio by volume: 79/100Work time, 100 g, 77°F: 12-14 minGel Time: 13-15 min

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