

# BJB Polyurethane TC-895 A/B

Polyurethane  
BJB Enterprises, Inc.

Message:

TC-895 A/B BLACK is a RoHS compliant, non-mercury based catalyst polyurethane system that produces a tough 84 shore D material. This system has an extremely high heat deflection temperature which in some cases can be post cured without having to use fixtures.

General Information			
Features	Machinable		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm <sup>3</sup>	ASTM D792
Specific Gravity			
Part A	1.157	g/cm <sup>3</sup>	
Part B	1.157	g/cm <sup>3</sup>	
Shrinkage <sup>1</sup>	0.80	%	
Demold Time			
25°C	5.0 to 6.0	hr	
66°C	1.0	hr	
Gel Time	7.0 to 8.0	min	
Work Time (25°C) <sup>2</sup>	6.0 to 7.0	min	
Brookfield Viscosity			
Mixed : 25°C	850	mPa · s	
Part A : 25°C	1000	mPa · s	
Part B : 25°C	650	mPa · s	
Cure Time (23°C) <sup>3</sup>	16.0 to 24.0	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82 to 86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2020	MPa	ASTM D638
Tensile Strength (Yield)	71.0	MPa	ASTM D638
Tensile Elongation (Yield)	9.1	%	ASTM D638
Flexural Modulus	2190	MPa	ASTM D790
Flexural Strength	87.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	47	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	171	°C	
1.8 MPa, Unannealed	103	°C	
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM E831
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 50		
Shelf Life	26	wk	
NOTE			
1.	12"x1/2"x1/2"		
2.	100g		
3.	Post cure for an additional 16 hours at 180°F		

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#### Recommended distributors for this material

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