

BJB Polyurethane TC-896 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

TC-896 A/B is a RoHS compliant, non-mercury based catalyst polyurethane system that produces a tough 82 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.

Product Highlights:

- High heat resistance
- Non-mercury
- RoHS compliant
- Working time of 7 minutes

General Information			
Features	High Heat Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Specific Gravity			
Part A	1.127	g/cm ³	
Part B	1.157	g/cm ³	
Specific Volume	0.878	cm ³ /g	
Shrinkage ¹	0.40	%	
Demold Time			
25°C	6.0 to 8.0	hr	
66°C	1.0	hr	
Gel Time	8.5	min	
Work Time (25°C) ²	7.0	min	
Brookfield Viscosity			
Mixed : 25°C	1.48	Pa · s	
Part A : 25°C	2.10	Pa · s	
Part B : 25°C	0.650	Pa · s	
Cure Time (25°C)	5.0 to 7.0	day	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80 to 84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1460	MPa	ASTM D638
Tensile Strength (Yield)	52.1	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	1570	MPa	ASTM D790
Flexural Strength	64.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	56	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	116	°C	
1.8 MPa, Unannealed	98.9	°C	
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 50		
NOTE			
1.	12" x 1/2" x 1/2"		
2.	100g mass		

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