BJB Polyurethane TC-852 A/B

Polyurethane

BJB Enterprises, Inc.

Message:

TC-852 A/B produces a high impact, rigid 78 Shore D material that is commonly used to make computer housings, models of all kinds, artwork, and can also be used for electronic component encapsulation. TC-852 A/B is an excellent hand-castable product that produces parts with heat deflection temperatures up to 220°F (104°C).
Product Highlights:
Non-Mercury Based Catalyst System
RoHS compliant
High impact rigid material
Odorless, clean white color
One to two hour demold time
Excellent for vacuum or pressure casting
Low viscosity
Exhibits exceptional high heat distortion temperature

General Information			
Features	Low viscosity Rigidity, high Impact resistance, high Heat resistance, high The smell is low to none		
Uses	Electrical/Electronic Applications Shell		
RoHS Compliance	RoHS compliance		
Appearance	Opacity White-like		
Forms	Liquid		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
-- [1]	1.05	g/cm³	
-- [2]	1.12	g/cm³	
--	1.15	g/cm³	ASTM D792
Shrinkage [3]	0.40	%	
Gel Time	5.0	min	
Work Time [4] (25°C)	4.5	min	
Cure Time (25°C)	5.0 - 7.0	day	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	76 - 80		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength	48.3	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	1860	MPa	ASTM D790
Flexural Strength	72.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	102 - 107	°C	ASTM D648
1.8 MPa, not annealed	90.6 - 96.1	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Component a	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Component B	Mixing ratio by weight: 50, mixing ratio by capacity: 53		
Shelf Life	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C [5]	1450	cP	Brookfield
25°C [6]	70.0	cP	Brookfield
25°C	250	cP	Brookfield
Demold Time (25°C)	60 - 120	min	
Additional Information	Nominal Value	Unit	Test Method

Note: Reported physical properties are based on test specimens cured at an elevated temperature, 180°F (82°C).In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 77°F (25°C), followed by 16 hours at 150-180°F (66-82°C). Support of the part may be required to prevent part deformation during the heat curing process.

NOTE	
1.	Part B
2.	Part A
3.	12" x 1/2" x 1/2"
4.	100g mass
5.	Part B
6.	Part A

Recommended distributors for this material

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