BJB Polyurethane TC-821 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-821 A/B produces a high impact rigid 84 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.
Product Highlights:
Convenient 1:1 by volume ratio
Non-mercury catalyst system
RoHS compliant
High impact rigid material
Translucent-Easy to color
Fast demolds
Excellent for vacuum, pressure, hand, and rotational casting
Exhibits high heat distortion temperature

General Information			
Features	High Heat Resistance High Impact Resistance		
Uses	Electrical/Electronic Applications Housings		
RoHS Compliance	RoHS Compliant		
Appearance	Translucent		
Forms	Liquid		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Specific Gravity			
Part A : 25°C	1.187	g/cm³	
Part B : 25°C	1.057	g/cm³	
Shrinkage [1]	0.50	%	
Demold Time (25°C)	30.0 to 60.0	min	
Work Time (25°C) [2]	2.0	min	
Brookfield Viscosity			
Mixed : 25°C	1.20	Pa·s	
Part A : 25°C	0.0600	Pa·s	
Part B : 25°C	2.30	Pa·s	
Cure Time (25°C)	5.0 to 7.0	day	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	82 to 86		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength (Yield)	52.4	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	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	76.7	°C	
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 90, Mix Ratio by Volume: 100		
Shelf Life	26	wk	
NOTE			
1.	12" x 1/2" x 1/2"		
2.	100g		

Recommended distributors for this material

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