BJB Polyurethane TC-800 A/B

Polyurethane

BJB Enterprises, Inc.

Message:

TC-800 A/B is an easy to use rigid urethane casting material. TC-800 A/B exhibits excellent physical properties, very low viscosity, high heat capability and quick demold times. In addition, this system is economically priced. The one-to-one volume ratio makes it perfect for use with dispensing equipment. TC-800 A/B is a great product when ABS type parts with a quick turnaround are required. Features a non-mercury based catalyst system.

General Information			
Features	Low viscosity Fast molding cycle Heat resistance, high		
RoHS Compliance	RoHS compliance		
Appearance	White Opacity		
Forms	Liquid		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
-- [1]	1.01	g/cm³	
-- [2]	1.15	g/cm³	
--	1.11	g/cm³	ASTM D792
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	73 - 77		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1310	MPa	ASTM D638
Tensile Strength	42.1	MPa	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Flexural Strength	63.8	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	27	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	82.2 - 87.8	°C	ASTM D648
1.8 MPa, not annealed	68.3 - 73.9	°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: 88, mixing ratio by capacity: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C [3]	375	cP	Brookfield
25°C [4]	60.0	cP	Brookfield
25°C	200	cP	Brookfield
Demold Time (25°C)	60	min	
Work Time [5] (25°C)	2.0	min	
Cure Time (25°C)	5.0 - 7.0	day	

Additional Information	Nominal Value	Unit	Test Method
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.	Part B
4.	Part A
5.	100g mass

Recommended distributors for this material

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