

BJB Polyurethane TC-802 A/B

Polyurethane

BJB Enterprises, Inc.

Message:

TC-802 A/B is an easy to use rigid urethane casting material. TC-802 A/B is an extremely low viscosity system with quick demold times. This system also exhibits good physical and heat capabilities. In addition, this system is economically priced. The one-to-one volume ratio makes it perfect for use with dispensing equipment. TC-802 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	Good Mold Release		
	High Rigidity		
	Low Viscosity		
Appearance	Opaque		
	White		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	0.990	g/cm ³	
--	1.06	g/cm ³	
-- ²	1.10	g/cm ³	
Specific Volume	0.957	cm ³ /g	
Work Time ³ (25°C)	1.7	min	
Molding Shrinkage - Flow	0.60	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71 to 75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	910	MPa	ASTM D638
Tensile Strength (Yield)	28.8	MPa	ASTM D638
Tensile Elongation (Yield)	40	%	ASTM D638
Flexural Modulus	1020	MPa	ASTM D790
Flexural Strength	41.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	22	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	80.6	°C	
1.8 MPa, Unannealed	63.9	°C	

Thermoset	Nominal Value	Unit	Test Method
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	
Thermoset Mix Viscosity			ASTM D2393
25°C ⁴	80.0	cP	
25°C ⁵	120	cP	
25°C ⁶	40.0	cP	
Demold Time (25°C)	10	min	
Post Cure Time (25°C)	120 to 170	hr	
NOTE			
1.	Part B		
2.	Part A		
3.	100g mass		
4.	Mixed		
5.	Part B		
6.	Part A		

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