

BJB Polyurethane TC-803 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

TC-803 A/B produces a 75 Shore D material that provides excellent physical properties. TC-803 A/B was designed for a wide variety of part making applications and has a very attractive value pricing.

PRODUCT HIGHLIGHTS:

- Non-mercury based catalyst system
- 6 - 7 minute work time
- Odorless, clean white color
- 1 - 2 hour demold time
- Low viscosity

General Information			
Features	Low to No Odor		
	Low Viscosity		
RoHS Compliance	RoHS Compliant		
Appearance	Opaque		
	White		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.06	g/cm ³	
-- ²	1.10	g/cm ³	
--	1.12	g/cm ³	
Specific Volume	0.925	cm ³ /g	
Gel Time	7.0 to 8.0	min	
Work Time ³ (25°C)	6.0 to 7.0	min	
Molding Shrinkage - Flow	0.60	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	73 to 77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ASTM D638
Tensile Strength (Yield)	46.9	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	1670	MPa	ASTM D790
Flexural Strength	67.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	35	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	95.0	°C	
1.8 MPa, Unannealed	89.4	°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: 50, Mix Ratio by Volume: 52		
Shelf Life	26	wk	
Thermoset Mix Viscosity			ASTM D2393
25°C ⁴	160	cP	
25°C ⁵	1350	cP	
25°C ⁶	75.0	cP	
Demold Time (25°C)	60 to 120	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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