

BJB Polyurethane TC-865 A/B

Polyurethane

BJB Enterprises, Inc.

Message:

TC-865 A/B is medium viscosity, economical and easy to handle two component urethane compound. This system cures relatively fast at room temperature producing tough, impact resistant casting. TC-865 A/B is recommended in applications where a resilient surface hardness is desired while maintaining good flexibility.

General Information			
Features	Impact resistance, good		
	Good flexibility		
	Good toughness		
	Elastic		
	Medium viscosity		
Appearance	Yellow		
	Cream		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.13	g/cm ³	ASTM D792
--	1.15	g/cm ³	ASTM D792
-- ²	1.18	g/cm ³	ASTM D792
Molding Shrinkage - Flow ³ (12.7 mm)	0.50	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63 - 67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	683	MPa	ASTM D638
Tensile Strength	17.1	MPa	ASTM D638
Tensile Elongation (Break)	70	%	ASTM D638
Flexural Modulus	640	MPa	ASTM D790
Flexural Strength	19.8	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	102	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	45	J/m	ASTM D256
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: 100, mixing ratio by capacity: 95		

Shelf Life	26	wk	
Thermoset Mix Viscosity			Internal method
25°C ⁴	1500	cP	Internal method
25°C ⁵	1350	cP	Internal method
25°C	1400	cP	Internal method
Demold Time (25°C)	> 180	min	
Post Cure Time (71°C)	16	hr	
Work Time	10.0	min	

Additional Information

Cure schedule: Most of the physical properties can be achieved in 5-7 days at ambient temperature, 77°F (25°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 160°F (71°C).

NOTE

1. Part A
2. Part B
3. 12 x 0.5 x 0.5 in
4. Part B
5. Part A

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