BJB Polyurethane F-82 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

The F-82 A/B system is a production oriented, non-mercury containing, fast gel, and fast de-mold material. It features a working time which allows time to mix, vacuum de-gas, and pour air-free parts. F-82 A/B can be demolded in as little as two hours depending on part size and configuration.
PRODUCT HIGHLIGHTS:
RoHS compliant
Rapid demolds
Ideal for part production
Does not contain Mercury, Phthalates, MOCA, MDA, or TDI
Very easy to use

General Information			
Features	Rapid solidification crystal point Good demoulding performance		
Uses	Mold/Mold/Tool		
RoHS Compliance	RoHS compliance		
Appearance	Opacity Yellow		
Forms	Liquid		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
-- [1]	1.04	g/cm³	
--	1.09	g/cm³	ASTM D792
-- [2]	1.14	g/cm³	
Specific Volume	0.936	cm³/g	
Shrinkage	0.70	%	ASTM D2566
Gel Time	5.5	min	
Work Time [3] (25°C)	4.5	min	
Cure Time (25°C)	5.0 - 7.0	day	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	75 - 85		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2.51	MPa	ASTM D412
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	14.5	MPa	ASTM D412
Tensile Elongation (Break)	390	%	ASTM D412
Tear Strength	31.2	kN/m	ASTM D624
Electrical	**Nominal Value**		**Test Method**

Dielectric Constant (1 MHz)	4.59		ASTM D150
Dissipation Factor (1 MHz)	0.064		ASTM D150
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components			
Component a	Mixing ratio by weight: 50, mixing ratio by capacity: 46		
Component B	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Shelf Life	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C [4]	1500	cP	Brookfield
25°C [5]	850	cP	Brookfield
25°C	1300	cP	Brookfield
Demold Time (25°C)	120 - 180	min	

Additional Information	Nominal Value	Unit	Test Method
Note: Physical properties obtained from test specimens post cured per recommended procedure.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 130-160°F (54-71°C).			

NOTE	
1.	Part B
2.	Part A
3.	100g mass
4.	Part B
5.	Part A

Recommended distributors for this material

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WECHAT