



F-82 A/B

80 SHORE A POLYURETHANE ELASTOMER

PRODUCT DESCRIPTION:

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

PHYSICAL PROPERTIES:

Hardness, Shore A ASTM D2240-04e1	80 ± 5
Density, (g/cc) ASTM D792-00	1.09
Cubic Inches per Pound	25.9
Color/Appearance.....	Pale yellow/opaque
Tensile Strength, (psi) ASTM D412-98a(2002)e1	2,100
Tensile Modulus, (psi) ASTM D412-98a(2002)e1	364
Elongation, (%) ASTM D412-98a(2002)e1	385
Tear Strength, (pli) ASTM D624-00e1	178
Shrinkage, (in /in) linear ASTM D2566-	0.007
Dielectric Constant, 1MHz ASTM D150-87	4.59
Dissipation Factor, 1 MHz ASTM D150-87.....	0.064

(Note: Physical properties obtained from test specimens post cured per recommended procedure.)

HANDLING PROPERTIES:

Mix Ratio (by weight):

Part A.....	50 parts by weight
Part B	100 parts by weight

Mix Ratio (by volume):

Part A.....	46 parts by volume
Part B	100 parts by volume

Specific Gravity:

Part A.....	1.14
Part B	1.04

HANDLING PROPERTIES (Continued):

Viscosity, (cps) @ 77°F (25°C) Brookfield:	
Part A	850
Part B	1,500
Mixed.....	1,300
Color:	
Part A.....	Pale yellow
Part B	Pale yellow
Work Time, 100g mass @ 77°F (25°C).....	4.5 minutes
Gel Time	5.5 minutes
Demold Time @ 77°F (25°C).....	2 - 3 hours

CURE SCHEDULE/HEAT CURING:

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).

STORAGE:

Store in a cool dry place. Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at room temperature. Purge opened containers with dry nitrogen before re-sealing.

NOTE:

The F-82 Part B, in liquid form, may darken with age. Prolonged direct exposure to sunlight can affect the surface of this product. Cover molds or other products when storing outdoors.

PACKAGING:

1 Gallon kits.....	4 lbs. A, 8 lbs. B
5 Gallon kits.....	20 lbs. A, 40 lbs. B
55 Gallon kits.....	200 lbs. A, 400 lbs. B

SAFETY PRECAUTIONS:

Use in a well-ventilated area. Avoid contact with skin using protective gloves and protective clothing. Repeat or prolonged contact on the skin may cause an allergic reaction.

Eye protection is extremely important. Always use approved safety glasses or goggles when handling this product.

IF CONTACT OCCURS:

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. It is *not* recommended to remove resin from skin with solvents. Solvents only increase contact and dry skin. Seek qualified medical attention if allergic reactions occur.

Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

Ingestion: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

Refer to the Material Safety Data Sheet before using this product.

NON-WARRANTY "Except for a warranty that materials substantially comply with the data presented in Manufacturer's latest bulletin describing the product (the basis for this substantial compliance is to be determined by the standard quality control tests generally performed by Manufacturer), all materials are sold "AS IS" and without any warranty express or implied as to merchantability, fitness for a particular purpose, patent, trademark or copyright infringement, or as to any other matter. In no event shall Manufacturer's liability for damages exceed Manufacturer's sale price of the particular quantity with respect to which damages are claimed."