



F-181 REV 1 A/B
80 SHORE A POLYURETHANE ELASTOMER



BJB's "F-1 Series", with its 3 to 10 minutes of work time, addresses the need for shorter processing times and higher part production. These 5 to 95 Shore A products exhibit excellent physical properties and easily process at room temperature. You'll also find the easy mix ratio to be extremely convenient. F-181 REV 1 can be cartridge-dispensed with our CPE handheld dispense equipment. For longer work times consider our M Series or L Series of elastomers.

- RoHS/REACH Compliant
Special Effects & Props
Popular for Parts & Molds
Over Molding
High Tensile & Tear Strength
Easy to Pigment

Table with 3 columns: PHYSICAL PROPERTIES, TEST METHOD, and ELEVATED TEMPERATURE CURE*. Rows include Hardness, Density, Cubic Inches per Pound, Color/Appearance, Tensile Strength, Tensile Modulus, Elongation, Tear Strength, Shrinkage, Dielectric Constant, and Dissipation Factor.

*Note: Reported physical properties are based on test specimens cured 1-3 hours at room temperature then 16 hours at 160°F (71°C).
†Shrink test specimens are cured for 24 hours at room temperature and then 16 hours at 160°F (71°C).

Table with 3 columns: HANDLING PROPERTIES, Part A, and Part B. Rows include Mix Ratio by weight, Mix Ratio by volume, Specific Gravity, Color, Viscosity, Mixed Viscosity, Work Time, Gel Time, and Demold Time.

Properties above are typical and not for specifications.

CURE SCHEDULE/HEAT CURING:

Most of the physical properties can be achieved in 5-7 days at 77°F (25°C). You may use your own post-cure schedule but the physical properties may vary from BJB's cure schedule of 1-3 hours at 77°F (25°C) followed by 16 hours at 160°F (71°C). Do not exceed curing temperature of 200°F (93°C).

ACCESSORIES:

BJB offers silicone RTV mold making materials along with a wide range of accessory items. These include de-airing agents, pigments, mold releases, and Jiffy® Mixers. Visit BJB's website at www.bjbenterprises.com or consult a BJB representative for more information.

COLOR VARIATIONS:

The color of the base material may vary slightly from batch to batch due to raw ingredients. Color variations will not affect the cured physical properties. Exposing the material to various conditions such as heat and UV light will alter the color of the cured system. Color stability is not guaranteed. This product can be pigmented, but you may see more color shift when using lighter pigments.

UV RESISTANCE:

This product is not classified as UV resistant. BJB offers an additive called UV-100, a UV inhibitor and anti-oxidant blend that will help slow down the effects of UV degradation and color change. The level of effectiveness varies from product to product

STORAGE:

Store at ambient temperatures, 65-80°F (18-27°C). Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at recommended temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	Part A	Part B	Cubic Inches per Kit
Quart Kits	2 lbs.	1 lb.	77
Gallon Kits	8 lbs.	4 lbs.	310
5-Gallon Kits	40 lbs.	20 lbs.	1,549
55-Gallon Drum Kits	440 lbs.	220 lbs.	17,035

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.

⚠WARNING: This product can expose you to chemicals including Toluene diisocyanate, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

NOTE:

Refer to the Safety Data Sheet before using this product. For processing tips and guides, please visit: learn.bjbmaterials.com to discover additional information.