

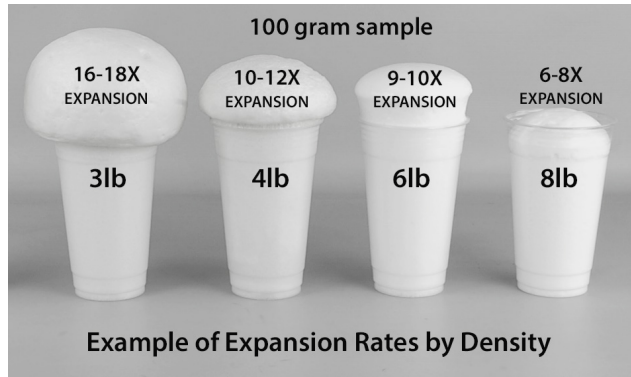
TC-266 A/B
POLYSOFT 1
3-5 lb. VARIABLE DENSITY, FLEXIBLE FOAM

TC-266 A/B 'PolySoft 1' is a two-component, flexible polyurethane foam. The cured material feels similar to a soft furniture cushion. BJB's 6800 Series Pigments may be added to the "B" side for developing a wide range of colors. End users can adjust firmness with a slight ratio change as listed below. Common applications are prototypes, prosthetics, medical training devices, movie special effects props and more. This material is frequently molded behind flexible polyurethane skin materials such as BJB's FP, F, M, and L line or other BJB elastomers.

Note: TC-266 at a ratio of 50/100 pbw produces a soft, quick recovery foam with a density of 3 pounds. At 30/100 pbw, the result will be a softer, slower recovery foam with a density of 5 pounds.

Table with 3 columns: HANDLING PROPERTIES, 3# DENSITY (For a soft resilient foam), and 5# DENSITY (For an extremely soft foam). Rows include Mix Ratio, Density (lbs/ft³ and kg/m³), Cream Time, Rise Time, Demold Time, Specific Gravity, and Viscosity.

\*The density and processing times listed are derived from a statistical average of long-term testing. We recommend a test mix be performed before use.



MIXING:

Mixing is best with a high speed drill or air motor with a "Jiffy Mixer". The blade shears the material and provides a thorough mix within the 8 to 10 second period generally established for achieving a uniform blend. Mixing too long or not enough can result in poor material performance. Once mixed, the material should be immediately poured. If too much time goes by, the foam will rise in the mix container and the batch may be lost. When pouring the foam, avoid trying to scrape any material from the container sidewalls or bottom. Generally, there isn't enough time to do this and more importantly there may be material that is not well mixed on the container sides.

### **MOLD PREPARATIONS:**

The mold should be well sealed and released. Foams will seek moisture through release waxes and stick to mold surfaces if an insufficient seal exists. Sealing can be accomplished by using sanding sealer or other similar sealers. The mold should be warmed to between 75-85°F (24-29°C) prior to casting the first part. Once a mold is heated and cycled it will maintain heat for continued production.

Release systems vary in accordance to the type of mold used, however as a general product we recommend Challenge 95 Release or a mold release paste wax (when using a metal or epoxy mold) from our line of products. As a rule, silicone based releases do not work with either the flexible or rigid foam groups of materials. The silicone migrates and often causes poor surface conditions. Silicone releases will also inhibit the adhesion of paints and over-coatings.

The best molds for production (rather than prototype or limited production parts) are either machined aluminum molds or epoxy molds. Epoxy molds offer the least expensive method for long term use when cycle times allow slower heat dissipation.

### **DEMOLDING FOAM MATERIALS:**

TC-266 A/B can be removed from the mold within a 30-minute timeframe. However, smaller masses will develop lower exothermic reaction and may require a slightly longer cure time. It is recommended that foam parts be crushed or squeezed after demolding to remove residual gases remaining in the cell structure. This will help to reduce post shrinkage and aid in reducing natural odors from the foam part.

### **NOTE:**

The “B” component should be gently shaken or stirred to re-blend prior to mixing with part “A”.

### **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.

When first using the material, a sample should be visually inspected to be sure no crystallization is present. Crystallization of either the resin or hardener can occur during shipment in cold weather. If the resin appears cloudy or the hardener becomes gummy, the component should be warmed with the containers open and stirred until the material returns to its proper smooth liquid consistency.

<b>PACKAGING</b>	<b>Part A</b>	<b>Part B</b>
Quart Kits	1 lbs.	2 lbs.
Gallon Kits	4 lbs.	8 lbs.
5-Gallon Kits	20 lbs.	40 lbs.
55-Gallon Drum Kits	225 lbs.	450 lbs.

### **SAFETY PRECAUTIONS:**

Use in a well-ventilated area. Avoid contact with skin using protective gloves and protective clothing. Repeated 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.

### **NOTE:**

Refer to the Safety Data Sheet before using this product. For processing tips and guides, please visit: [learn.bjbmaterals.com](http://learn.bjbmaterals.com) to discover additional information.

**⚠WARNING:** This product can expose you to chemicals including Diethanolamine, which are known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).