**Description**

This biocompatible elastomer may be considered as a substitute for rubber, latex and silicone materials. Soft and compliant, the ChronoPrene resins offer a high flexural modulus, as well as a superior combination of tensile strength and elongation.

An easy molding, high-flow material, ChronoPrene can be processed using conventional extrusion, injection molding and blowmolding methods. Its physical properties make it an optimal material for applications requiring elastic characteristics, such as compliant/ non-compliant balloons, endoscopic and laparoscopic inflation bags.

ChronoPrene can be processed at low temperatures, resulting in excellent surface smoothness and superior elasticity. ChronoPrene exhibits high abrasion resistance, durability and UV stability and is available in hardnesses ranging from 5 Shore A to 75 Shore A.

**The ASB Advantage**

AdvanSource Biomaterials synthesizes and manufactures medical grade materials offering the ability to tailor physical and mechanical characteristics to support and enhance your end product design.

These mechanical characteristics, critical to the design and development of medical devices, can incorporate a wide range of physical and chemical properties while maintaining core characteristics such as biodurability and biocompatibility. In most materials, specialized characteristics such as the addition of colorant agents or antimicrobial properties (where applicable) can be added to the polymer to provide a homogenous material and limit secondary processing steps.

In addition, radiopaque agents may also be incorporated into the formula to provide additional product enhancements and may contain up to 40%, by weight, of a radiopaque agent thus allowing varied-scale visibility options.

With an expanding range of secondary operations including custom solution development, prototype coating capabilities, and project management services, ASB’s expert team of chemists, scientists, engineers and industry professionals assist in every stage of customers’ projects, from concept initiation through full-scale manufacture.

**An ASB product**

- **BIODURABLE**
- **OUTSTANDING SUBSTITUTE FOR RUBBER OR LATEX MATERIALS**
- **SUPERIOR ELASTICITY**
- **EXCEPTIONALLY SOFT**
- **AVAILABLE IN RADIOPAQUE FORM**
- **EXTRUDABLE / INJECTION MOLDABLE**
- **PHTHALATE FREE**
- **UV STABLE**
- **EXCELLENT CHEMICAL RESISTANCE**
- **HIGH ELONGATION**
- **HYDROPHOBIC**
- **USP CLASS VI**
- **BIOCOMPATIBLE**
Pre-Processing Recommendations:
ChronoPrene processing can be optimized by drying to a moisture content equal to or less than 0.05% by weight prior to melt processing.

Typically, the pellets must be dried for 3-4 hours with a dryer inlet air temperature of 180ºF +/- 20ºF. We recommend a machine-mounted desiccant-type hopper dryer, capable of reaching and maintaining a dew point of -40ºF. If dry times are in excess of 8-10 hours, a hopper dryer temperature of 120-150ºF is usually sufficient to achieve optimal moisture content.

FDA Master Files It is the responsibility of the user to establish safety with the FDA for their specific medical device.