



Factor II, Incorporated

Inventing and Innovating...

(Information: 1.928.537.8387)

ONLINE ORDERING www.factor2.com

PRODUCT INFORMATION A-225-50 A-225-60 A-225-70

PRODUCT DESCRIPTION:

Silbione® Liquid Silicone Rubbers (LSRs) are two-component platinum-catalyzed silicone elastomers engineered for use in liquid injection molding (LIM) processes where high strength molded parts are desired for less than 29 day medical applications. Liquid Silicone Rubber (LSR) is a pumpable, colorless, translucent paste. When A and B components are mixed together in equal portions, the liquid will cure to a tough, elastomer via addition-cure chemistry. These systems are supplied in two component kits, consisting of equal amounts of part A and B.

FEATURES:

- Easy processing
- Excellent mold release for shorter cycle times
- Superior clarity
- High performance physicals – high tear and elongation
- Rapid cure at elevated temperatures
- Can be post-cured, but post cure is not necessary to achieve desired physicals

APPLICATIONS:

Factor II's Liquid Silicone Rubber (LSR) Systems are designed to be mixed in equal parts using standard LIM processing equipment and techniques. Cure is typically achieved in 15 seconds at 175°C. Cure rate can be increased by increasing temperature. Postcure is suggested to stabilize physical properties for implant applications.

Some specific applications include:

- Precision molded parts
- Encapsulated electronic parts
- Insert molding

TYPICAL PROPERTIES:

Compression Molded 5 minutes @ 177°C

Appearance: Clear

Consistency: Heavy Pumpable Paste

	<u>A-225-50</u>	<u>A-225-60</u>	<u>A-225-70</u>
Durometer, Shore A	50	60	68
Tensile Strength, psi	1225	1300	1300
Elongation, %	570	480	450
Tear Strength, ppi	265	250	240
Specific Gravity	1.12	1.13	1.14
Modulus 100% psi	350	425	530

MIXING:

Silbione® LSRs are supplied as kit-matched products. Parts A and B components are designed to be mixed in equal parts using standard liquid injection molding processing equipment and techniques. Airless mixing, metering and dispensing equipment are recommended.

- Kit matching, accurate measuring and complete mixing are essential factors in obtaining consistent results.

Cure:



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Cure is initiated by heating the mixed elastomer. Cure is dependent upon molding temperature and part size. Special care must be taken to assure clean molds and a clean work area with no organic rubbers used on the same processing equipment.

Traces of foreign materials can poison the catalyst and inhibit the cure. All metering and mixing equipment should be thoroughly cleaned. Polymer systems, which contain traces of amines, sulfur, nitrogen oxide, organotin compounds and carbon monoxide can interfere with the cure of this product and should be avoided.

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Revised 8/21/2013