

Silicones

Delivering  
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Silbione

Silbione<sup>®</sup> Biomedical

For Implantable & Drug Delivery Devices

# Silbione® Biomedical LSRs elastomers

Silbione® Biomedical Liquid Silicone Rubbers (LSRs) are 2-component platinum-catalyzed silicone elastomers designed for liquid injection molding, compression molding, casting and sheeting manufacturing processes.

These products are designed to be used in applications requiring implantation for greater than 30 days in the body.

	Silbione® Biomedical LSR series	Durometer ShA	Tensile Mpa-Psi	Elongation %	Tear strength kN/m-ppi	Density	Viscosity at 0.01s <sup>-1</sup> , Pa.s	Appearance
Very soft low durometer	LSR M301	01 (Sh00 35)	1,9 - 270	1100	8 - 45	1,07	55	Clear
	LSR M305	05 (Sh00 48)	3,3 - 480	1050	11 - 65	1,07	60	Clear
	LSR M310	10	5,8 - 850	1020	20 - 115	1,09	500	Clear
Mid durometer	LSR M325	23	8,6 - 1250	970	32 - 180	1,11	1000	Clear
	LSR M330	30	9,2 - 1340	800	32 - 185	1,11	1000	Clear
	LSR M340	40	8,6 - 1250	660	40 - 230	1,12	1000	Clear
	LSR M350	50	8,4 - 1225	600	47 - 270	1,12	1000	Clear
High durometer	LSR M360	60	8,8 - 1275	480	42 - 240	1,12	1000	Clear
	LSR M365	65	8,8 - 1270	470	43 - 250	1,14	1000	Clear
	LSR M370	70	8,6 - 1250	475	40 - 230	1,14	5000	Clear
Low consistency elastomers	LSR M125 10:1	28	5,3 - 770	480	13 - 70	1,08	85 & 2	Clear
	LSR M130 10:1	31	4,5 - 650	480	12 - 145	1,08	90 & 0,5	Clear
	LSR M140 10:1	40	6,7 - 975	350	24 - 76	1,09	100 & 0,3	Clear
	LSR M125	27	5,5 - 800	550	12 - 70	1,08	70	Clear
	LSR M140	41	6,7 - 975	385	24 - 140	1,09	75	Clear

All reported typical properties are press cured 5min at 177°C. Tests conducted on final product A+B.

The typical properties listed above are not intended for use in preparing specifications for any particular application.

User has sole responsibility to determine product suitability for intended uses and applications.

**Customized grades upon request.** Silbione® is a registered trademark of Elkem Silicones.

### Quality and Manufacturing Standards

- Silbione Biomedical grade materials are produced following the principles of GMP and tested in accordance ISO 14949 guidelines
- Certified ISO Class 8 manufacturing environment and ISO Class 7 packaging environment
- Certified ISO 9001 manufacturing facility
- Responsible Care Management System

### Biocompatibility and Regulatory support

- Tested in accordance with ISO 10993 and USP Class VI
- Attestations and Toxicological Summaries available
- Master Access File (MAF) with FDA CRDH

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Elkem Silicones

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