

Silicones

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potential

Silbione

Silbione™ Biomedical LSR

Implant grade Liquid Silicone Rubbers used in implantable
& drug delivery devices

Silbione™ Biomedical LSR

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 ⁻¹ , 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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