

Silbione® Liquid Silicone Rubber (LSR) Elastomers for Healthcare & Medical Device Fabrication <30-Day Implant

Silbione® Product	Durometer, ShA	Tensile, psi (MPa)	Elongation, %	Tear Strength, ppi (kN/m)	Specific Gravity	Extrusion Rate, g/min	Appearance	Typical Applications
Ultra Low Durometer LSR								
LSR 4301 A/B	1 (35sh00)	270 (1.9)	1100	45 (7.8)	1.07	(Viscosity = 55k cps)	Clear	Orthopedic insoles and cushioning; prosthetic liners; rollers
LSR 4305 A/B	5 (48sh00)	480 (3.3)	1050	65 (11.5)	1.07	(Viscosity = 60k cps)	Clear	Orthopedic insoles and cushioning; prosthetic liners; rollers
LSR 4310 A/B	10	850 (5.8)	1020	115 (20)	1.09	315	Clear	Cushioning
Standard LSRs								
LSR 4325 A/B	23	1250 (8.6)	970	180 (32)	1.11	105	Clear	Balloons
LSR 4330 A/B	30	1340 (9.2)	800	185 (32)	1.11	100	Clear	Molded healthcare & medical parts <30 days
LSR 4340 A/B	40	1250 (8.6)	660	230 (40)	1.12	90	Clear	Molded healthcare & medical parts <30 days
LSR 4350 A/B	50	1225 (8.4)	600	270 (47)	1.12	85	Clear	Molded medical parts <30 days; Dive masks and goggles
High Performance High Durometer								
LSR 4360 A/B	60	1275 (8.8)	480	240 (42)	1.12	95	Clear	Molded medical parts <30 days; Dive masks and goggles
LSR 4370 A/B	70	1290 (8.9)	475	225 (39)	1.14	76	Clear	Bakeware, cake molds; Dive masks and goggles; Molded healthcare & medical parts <30 days
Fast Cure LSR								
LSR 4340 FC A/B	40	1280 (8.8)	690	230 (40)	1.12	90	Clear	Fast Cure for large, thick parts
Overmolding Silicone to Silicone								
LSR 60 A/B	59	1330 (9.1)	440	190 (33)	1.12	140	Clear	Self bonding to silicone substrates
Self-Lubricating LSRs								
LSR 4745 A/B	45	1240 (8.6)	635	255 (44)	1.10	120	Slight Haze	Self-lubricating; precision molded parts; rubber stoppers, o-rings
LSR 4755 A/B	55	1140 (7.9)	450	250 (44)	1.12	120	Slight Haze	Self-lubricating; precision molded parts; rubber stoppers, o-rings
LSR 4765 A/B	63	1130 (7.8)	465	230 (40)	1.12	120	Slight Haze	Self-lubricating; precision molded parts; rubber stoppers, o-rings
Low Consistency Elastomers								
LSR 4125 A/B	27	800	550	70	1.08	(Viscosity = 75k cps)	Clear	Molded healthcare and medical parts <30 days
LSR 4125 10:1 A/B	28	770	480	75	1.08	(Viscosity = 85k/2 cps)	Clear	
LSR 4130 A/B	30	700	450	70	1.08	(Viscosity = 75k cps)	Clear	
LSR 4130 10:1 A/B	31	650	480	70	1.08	(Viscosity = 90k/550 cps)	Clear	
LSR 4140 A/B	41	975	385	145	1.09	(Viscosity = 75k cps)	Clear	
LSR 4140 10:1 A/B	40	975	350	140	1.09	(Viscosity = 100k/200 cps)	Clear	

The typical properties listed above are not intended for use in preparing specifications for any particular application of Elkem Silicone materials. All reported typical properties are press cured 5 mins. @ 177°C. Silbione® is a registered trademark of Elkem Silicones. Note: User has sole responsibility to determine product suitability for intended uses and applications.

06/2018

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Silbione® Product	FDA 21CFR 177.2600	FDA 717.11 Nitrosamines	Biocompatibility Tests ⁽¹⁾										
			Cytotoxicity	Skin Sensitization	Intracutaneous Tox (USP) Skin Irritation (ISO 10993)	Systemic Toxicity	Mutagenicity	Hemolysis	Mucosal Irritation	Pyrogenicity (USP)	7-Day Implant	28-Day Implant	ISO 10993 or USP VI
Ultra Low Durometer LSR													
LSR 4301 A/B			■	■	■	■	■	■	■	■	■	■	■
LSR 4305 A/B	Water extraction only	■	■	■	■	■	■	■	■	■	■	■	■
LSR 4310 A/B			■	■	■	■	■	■	■	■	■	■	■
Standard LSRs													
LSR 4325 A/B			■	■	■	■	■	■	■	■	■	■	■
LSR 4330 A/B	■		■	■	■	■	■	■	■	■	■	■	■
LSR 4340 A/B	■	■	■	■	■	■	■	■	■	■	■	■	■
LSR 4350 A/B	■ (2)	■	■	■	■	■	■	■	■	■	■	■	■
High Performance High Durometer													
LSR 4360 A/B			■	■	■	■	■	■	■	■	■	■	■
LSR 4365 A/B			■	■	■	■	■	■	■	■	■	■	■
LSR 4370 A/B			■	■	■	■	■	■	■	■	■	■	■
Fast Cure LSR													
LSR 4340 FC A/B	■	■	■	■	■	■	■	■	■	■	■	■	■
Overmolding Silicone to Silicone													
LSR 60 A/B	(2)		■	■	■	■	■	■	■	■	■	■	■
Self-Lubricating LSRs													
LSR 4745 A/B			■	■	■								
LSR 4755 A/B			■	■	■								■ (3)
LSR 4765 A/B			■	■	■								■ (3)
Low Consistency Elastomers													
LSR 4125, LSR 4125 10:1, LSR 4130, LSR 4130 10:1, 4140, LSR 4140 10:1			■	■	■	■	■	■	■	■	■	■	■

(1) -The biocompatibility testing listed addresses the categories of evaluation specified in ISO 10993 for implant device use of less than 30 days duration

All testing conducted on cured LSR product A+B
 ■ Indicates Attestations are available

(2) - Supported by testing meeting European Pharmacopoeia section 3.1.9 hexane extraction

(3) - Skin contact ≤30 days