

Silbione® Soft Silicones for Orthotics and Prosthetics

Product	Mix Ratio (A:B)	Durometer (ShA)	Mixed Viscosity (cps)	Pot Life (min.)	Tensile psi (N/mm ²)	Elongation (%)	Tear ppi (kN/m)	Appearance
Silbione® RTVs								
RTV 4510 A/B	1:1	11 Sh00	1200	60	-	-	-	Translucent
RTV 4528 A/B	1:1	28 Sh00	4000	70	215 (1.5)	800	11 (2)	Translucent
RTV 4545 A/B	1:1	45 Sh00	1900	30	450 (2.9)	800	50 (9)	Translucent
RTV 4410 A/B	1:1	10	1650	60	430 (2.9)	800	80 (14)	Translucent
RTV 4410 QC A/B	1:1	10	2500	10	400 (2.7)	700	80 (14)	Translucent
RTV 4420 A/B	1:1	20	4000	60	580 (4.0)	550	85 (15)	Translucent
RTV 4420 QC A/B	1:1	20	7000	3	508 (3.5)	500	85 (15)	Translucent
RTV 4040	10:1	40	40000	120	920 (6.3)	340	120 (21)	Translucent
w/ cata 4020HT	10:1	22	40000	105	801 (5.5)	660	116 (20)	Translucent
w/ cata 4020	10:1	25	40000	120	645 (4.4)	407	75 (13)	Translucent

Flesh Like Additive for RTVs

Product	Appearance	Specific Gravity	Viscosity (cps)	Durometer (Sh00) added to RTV 4545 A/B				
FLESH 10 ADD	colorless to light straw	0.97	2200	20 parts Flesh Add 47	40 parts Flesh Add 26	50 parts Flesh Add 18	60 parts Flesh Add 8	70 parts Flesh Add 5

Silbione® Gels

Product	Mix Ratio (A:B)	Specific Gravity	Mixed Viscosity (cps)	Work Time (min.)	Penetration (mm/10) ^a	Appearance
RT Gel 4220 A/B	1:1	0.98	1,100	50	1951	Transparent
Flesh Gel 5 A/B	1:1	0.98	250	200	402	Transparent

Silbione® LSRs

Product	Durometer (ShA)	Tensile psi (N/mm ²)	Elongation (%)	Tear Strength ppi (kN/m)	Specific Gravity	Extrusion Rate g/min.	Appearance
4301 A/B	40	270 (1.9)	1100	45 (7.8)	1.07	(Viscosity = 100k /200 cps)	Clear
4305 A/B	5(48sh00)	480 (3.3)	1050	65 (11.5)	1.07	(Viscosity = 100k /200 cps)	Clear
4310 A/B	10	850 (5.8)	1020	115 (20)	1.09	315	Clear

Silbione® Foam

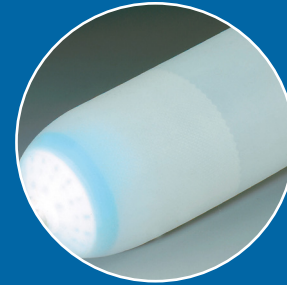
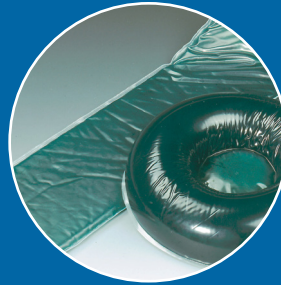
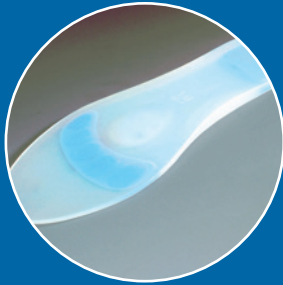
Product	Mix Ratio (A:B)	Mix Ratio (A:B)	Viscosity (cps)	Work Time (min)	Demolding Time (At 23°C,[min],approx.)	Appearance
RT 4230 A/B	1:1	9.2-9.3	15,000	5	30	Viscous liquid

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 30 min @ 80 °C. Silbione is a registered trademark of Elkem Silicones.

6/2018

Note: User has sole responsibility to determine product suitability for intended uses and applications.
1-Approx [mm/10], hollow cone (62.5g) DIN ISO 2137 2-Approx [mm/10], Petrolab PNR 10 penetrometer, cone type, ASTM D217C

Silbione® Soft Silicones for Orthotics and Prosthetics



Combining Comfort with Durability to Optimize Prosthetic Performance

The cushioning effects, form definition and life-like feel of silicones, make them ideal materials for prosthetic devices such as liners, artificial limbs and pressure relief cushions.

Elkem Silicones offers a full range of Silbione® soft silicone technologies that combine comfort with high mechanical properties for producing a variety of devices for the prosthetic market.

You deserve a partner **you can trust.**

You deserve a partner that **will be there for you long term.**

You deserve a partner that **will deliver your potential.**

You deserve Elkem Silicones.

Visit us at www.silbione.com to view our product offering.