



Offering Unique Advantages for Healthcare

Thanks to the unique advanced performance features of Silbione® soft silicones, low durometers are now an option for healthcare applications requiring soft feel yet strong physicals.

Bluestar Silicones offers the unique combination of strong physical properties and trouble-free processing in a diverse range of soft silicone technologies, including:

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| ▷ Liquid Silicone Rubber (LSR) in 01, 05, 10 and 25 ShA hardness | ▷ Silicone Gels |
| ▷ High Consistency Rubber (HCR) | ▷ Silicone Foam |
| ▷ Room Temperature Vulcanized (RTV) silicones | |

Key Features of LSR Soft Silicones:

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| ▷ High tear, elongation & resiliency | ▷ Reduced scrap and defects in molding process |
| ▷ Excellent mold release | ▷ Biocompatibility data to support healthcare applications |
| ▷ High clarity | ▷ Easily pigmented |
| ▷ Easy processing | ▷ Low co-efficient friction versions available |

Highlights:

- NEW** Silbione® LSR 4310, is a breakthrough product on the market offering higher elongation and 50% greater tear strength than other 10-ShoreA durometer LSR products commercially available today.
- NEW** Silbione® LSR 4305 and 4301, 05- and 01- Shore A respectively, are unique to the market, offering high physicals in very low durometer materials that are easy to process.
- NEW** Many of Bluestar Silicones low durometer materials are available in a new low-coefficient friction version that provides a smooth non-tacky finish in the compounded material for one-step processing.
- ★ Silbione Silicone Foam is honored as Frost & Sullivan's Product Differentiation Award 2012 for its patent pending technology that uniquely offers low density, open cell silicone foam for flexible, breathable and durable healthcare applications.

Note: Typical Properties of Silbione® Soft Silicones on back

Typical Properties¹

We will
Customize!

Silbione® Products	Durometer Sh A	Specific Gravity	Tear Strength Ppi (N/mm)	Tensile psi (MPa)	Elongation (%)	Mixed Viscosity (cps)
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Liquid Silicone Rubber (LSR)*

LSR 4301 A/B	1	1.07	45 (7.8)	254 (1.8)	1191	55000
LSR 4305 A/B	5	1.07	60 (10)	450 (3.1)	1100	60000
LSR 4310 A/B	10	1.08	115 (20)	750 (5.1)	1090	110000
LSR 4325 A/B	23	1.12	168 (29)	1198 (8.2)	950	-

High Consistency Rubber (HCR)*

HCRA 4120 A/B	24	1.12	220 (39)	1430 (9.9)	1260	-
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Room Temperature Vulcanized (RTV)*

RTV 4528 A/B	28 Shore 00	1.09	12 (2.0)	217 (1.5)	800	4000
RTV 4545 A/B	45 Shore 00	1.07	50 (8.7)	450 (3.1)	800	1900
RTV 4410 A/B (QC* avail.)	10	1.10	80 (15)	430 (3.0)	800	2500
RTV 4420 A/B (QC* avail.)	20	1.10	86 (15)	580 (4.0)	500	6000

Silbione® Products	Shore 00 Hardness (after 24hrs)	Viscosity A/B (mPa.s)	Flash Point (C°)	Pot-Life (min. at 25°C, approx.)	Curing Time (min. at 25°C, approx.)	Specific Gravity
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Silicone Foam*

RT 3240 A/B	40	5000	5000	61	5	15	0.20
RT 3241 A/B	40	1500	1500	184	5	15	0.24

Products	Mix Ratio	Working Time (approx. min.at 23°C)	Mixed Viscosity (approx. mPa s at 23°C)	Penetration (mm/10)	Probe Tack (mJ/cm, 0.25 mm)	Curing Time (approx. hr. 23°C)
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Silicone Gels*

RT Gel 4220 A/B	1:1	50	1100	195	na	30
RT Gel 4320 A/B	1:1	60	3000	210	6.6	60
HS Firm Gel A/B	10:1	120	7000	8	na	120

¹The typical properties listed above are not intended for use in preparing specifications for any particular application of Bluestar Silicones materials.
Note: User has sole responsibility to determine product suitability for intended uses and applications

A full range of products are available by contacting Bluestar Silicones direct at [866-474-6342](tel:866-474-6342) or www.bluestarsilicones.com.