

Silicones

Delivering
your
potential

Silbione

Silbione™ High Consistency Rubbers

Medical grade silicones used in the fabrication of medical devices & components

Silbione™ Heat Cured / High Consistency Rubbers

Thanks to their excellent mechanical characteristics, Silbione™ HCRs are used in a variety of medical device applications, including catheters, extruded tubing, balloons or needle entry ports.

	Silbione™ products	Shore A Hardness	Tensile Strength MPa / psi	Elongation %	Tear Strength kNm ¹ / pli	Specific Gravity	Appearance	Biocompatibility support *
Platinum curing 2K, Extrusion, High performance	HCRA 4520 A/B	20	8,6 / 1250	1000	39 / 225	1,11	Clear	•
	HCRA 4530 A/B	30	11,7 / 1700	1000	44 / 250	1,12	Clear	•
	HCRA 4540 A/B	40	11,4 / 1650	975	44 / 250	1,13	Clear	•
	HCRA 4550 A/B	50	11,4 / 1650	950	52 / 300	1,14	Clear	•
	HCRA 4560 A/B	60	10,7 / 1550	775	46 / 265	1,15	Clear	•
	HCRA 4565 A/B	65	10,3 / 1500	725	44 / 250	1,17	Clear	•
	HCRA 4570 A/B	70	10 / 1450	700	41 / 235	1,18	Clear	•
	HCRA 4580 A/B	80	8,6 / 1250	650	39 / 225	1,20	Clear	•
Platinum curing 2K, Extrusion, general purpose	HCRA 4250 A/B	50	8,2 / 1200	400	21 / 120	1,14	Hazy	•
	HCRA 4265 A/B	65	8,8 / 1275	600	30 / 170	1,16	Hazy	•
Peroxide curing**	HCRU 4440	48	>8,5 / >1160	>450	>25 / >142	1,10	Clear	•
	HCRU 4460	62	>8,5 / >1160	>360	>28 / >160	1,15	Clear	•
	HCRU 4470	70	>8,5 / >1160	>330	>30 / >170	1,18	Clear	•

*Silbione™ grade materials have been tested for biocompatibility according to applicable ISO 10993 and/or USP Class VI standards

**HCRU is an uncatalyzed base: typical properties were achieved with the addition of a peroxide catalyst.

The typical properties listed above are not intended for use in preparing specifications. For test methods and specifications, please contact an Elkem representative.

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

For detailed commercial contacts please visit our website:

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