

CLASS VI LINE



PRODUCT GUIDE

BEST IN CLASS VI

NuSil™ Class VI line is specifically designed to deliver cost efficiencies, standard packaging and testing necessary for high-volume applications.

Liquid Injection Molding

Our liquid silicone rubbers, or LSRs, are designed for liquid injection molding (LIM) including overmolding. NuSil™ LSRs are used to create precision molded components such as o-rings, gaskets, valves, seals, and other parts.

Extrusion & Molding

NuSil™ high consistency rubbers, or HCRs, are designed for extrusion, calendaring and compression or transfer molding. Our HCRs are used to create medical tubing, rod, ribbon, sheeting for die-cutting, and molded parts such as balloons, gaskets or o-rings.



LIQUID SILICONE RUBBERS

PRODUCT NUMBER	DUROMETER TYPE A	TENSILE psi (MPa)	ELONGATION %	TEAR ppi (kN/m)	STRESS @ STRAIN psi (MPa) @ %	WORK TIME @ 25 °C	CURE RATE T10 m @ 165°C	CURE RATE T90 m @ 165°C	SPECIFIC GRAVITY
SIL-5920	20	1,080 (7.4)	900	90 (15.8)	90 (0.6) @ 200	> 72 h	0.15	0.45	1.08
SIL-5930	30	1,340 (9.2)	830	150 (26.4)	160 (1.1) @ 200	> 72 h	0.15	0.30	1.11
SIL-5940	40	1,365 (9.4)	700	165 (29.0)	300 (2.1) @ 200	> 72 h	0.15	0.35	1.12
SIL-5950	50	1,450 (10.0)	550	180 (31.7)	425 (2.9) @ 200	> 72 h	0.15	0.25	1.14
SIL-5960	60	1,300 (9.0)	425	200 (35.2)	725 (5.0) @ 200	> 72 h	0.15	0.50	1.14
SIL-5970	70	1,250 (8.6)	400	175 (30.8)	850 (5.8) @ 200	> 72 h	0.15	0.45	1.14

h = hours

HIGH CONSISTENCY RUBBERS (PLATINUM CURE)

PRODUCT NUMBER	DUROMETER TYPE A	TENSILE psi (MPa)	ELONGATION %	TEAR ppi (kN/m)	STRESS @ STRAIN psi (MPa) @ %	WORK TIME @ 25 °C	CURE RATE T10 m @ 165°C	CURE RATE T90 m @ 165°C	SPECIFIC GRAVITY
SIL2-5020	20	1,620 (11.2)	1,185	195 (34.3)	65 (0.5) @ 200	8 h	0.15	0.29	1.11
SIL2-5030	30	1,690 (11.7)	1,140	215 (37.8)	120 (0.8) @ 200	5 h	0.15	0.26	1.11
SIL2-5040	40	1,510 (10.4)	1,115	220 (38.7)	140 (1.0) @ 200	4 h	0.15	0.29	1.15
SIL2-5050	50	1,350 (9.3)	940	245 (43.1)	320 (2.2) @ 200	4 h	0.15	0.34	1.16
SIL2-5060	60	1,295 (8.9)	920	255 (44.9)	380 (2.6) @ 200	11 h	0.15	0.20	1.19
SIL2-5070	70	1,330 (9.2)	855	260 (45.8)	360 (2.5) @ 200	2 h	0.15	2.80	1.20
SIL2-5080	80	1,140 (7.9)	615	210 (37.0)	460 (3.2) @ 200	> 24 h	0.15	1.55	1.20

h = hours

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NUSIL™ MEDICAL GRADE SILICONES

All of our medical grade silicones are specifically designed, manufactured and purified to meet the strictest requirements of the healthcare industry. These products are made under applicable cGMP standards in facilities indirectly or directly regulated by US FDA and are typically supported with master files.

Choose from our three lines of medical grade silicones:

	IMPLANT	PREMIUM CARE	CLASS VI
USE	IMPLANTABLE	IMPLANTABLE (≤ 29 DAYS)	NOT IMPLANTABLE
SPECIFICATIONS/ PACKAGING	CUSTOMIZABLE	CUSTOMIZABLE	STANDARD
REGULATORY SUPPORT/ TESTING	IMPLANT	PREMIUM	CLASS VI
CUSTOMER SERVICE	NUSIL™ CARE		

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Please contact NuSil Technology LLC for assistance and recommendations in choosing a particular product line.

It is the sole responsibility of each purchaser to ensure that any use of these materials is safe and complies with all applicable laws and regulations. It is the user's responsibility to adequately test and determine the safety and suitability for their applications and NuSil Technology LLC makes no warranty concerning fitness for any use or purpose.
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