

# WACKER ELASTOSIL® LIQUID SILICONE RUBBER

## Product Selection Guide

H.M. Royal offers a variety of Wacker ELASTOSIL® liquid silicone rubber (LSR) products to meet your specific needs. Not sure which LSR product is right for your molding process? Use this guide to compare the features and benefits and **find the best solution for your application.**



	ELASTOSIL® LR 3003*	ELASTOSIL® LR 3043	ELASTOSIL® FLR 3900 (Fluorosilicone)	ELASTOSIL® FLR 3905 (Fluorosilicone)	ELASTOSIL® LR 3066	ELASTOSIL® LR 3070	ELASTOSIL® LR 3071	SILPURAN® 6000	SILPURAN® 6400	SILPURAN® 6600
MAIN CHARACTERISTIC	General Purpose	High Tear Strength	Media Resistance		Low Coefficient of Friction	Self Adhesion		General purpose	High tear strength	Low coefficient of dynamic friction for easy assembly
DUROMETERS SHORE A ISO 7619-1	10-85	40-70	40-60	40	30-80	30-60	40-60	10-70	40-60	40-60
SPECIFIC GRAVITY [G/CM <sup>3</sup> ] ISO 1183-1A	1.13	1.13	1.26	1.24	1.13	1.11	1.11	1.13	1.13	1.13
TENSILE STRENGTH [N/MM <sup>2</sup> ] ISO 37 TYP 1	8.0	9.2	7.0	5.0	8.5	7.8	8.0	8.5	9.3	9
ELONGATION AT BREAK [%] ISO 37 TYP 1	525	440	400	310	450	550	550	520	500	430
TEAR RESISTANCE [N/MM] ASTM D 624 B	22	36	20	12	27	20	25	23	44	31
COMPRESSION SET [%] (22 H/175 °C) DIN ISO 815-B	13	23	18	13	16	22	45	14	24	13
COMPLIANCE	FDA**							FDA** USP Class VI ISO 10993		
TYPICAL APPLICATIONS	Production of molded parts (e.g., seals, valves, gaskets, membranes, and O-rings)	Economic production of fast cure molded parts (e.g., baby bottle nipples or pacifiers)	Molded parts with fuel or oil contact	Molded parts with fuel or oil contact – self-bleeding	Molded parts with low coefficient of friction for food contact applications – self-bleeding	Over-molded composite parts – silicone on PA, PBT, PET for industrial applications (e.g., cable connectors)	Over-molded composite parts – silicone on PA, PBT, PET for food contact	Seals, valves, connectors bellows	Seals, valves, connectors, masks, bellows	Seals, valves

Technical data shows typical values for silicones. Please review the specific TDS for more accurate data as the properties vary by durometer.

\*Flame retardancy – UL 94 Listing: HB (0.5 mm)

\*\*CFR 177.2600 Rubber articles for intended repeat use

