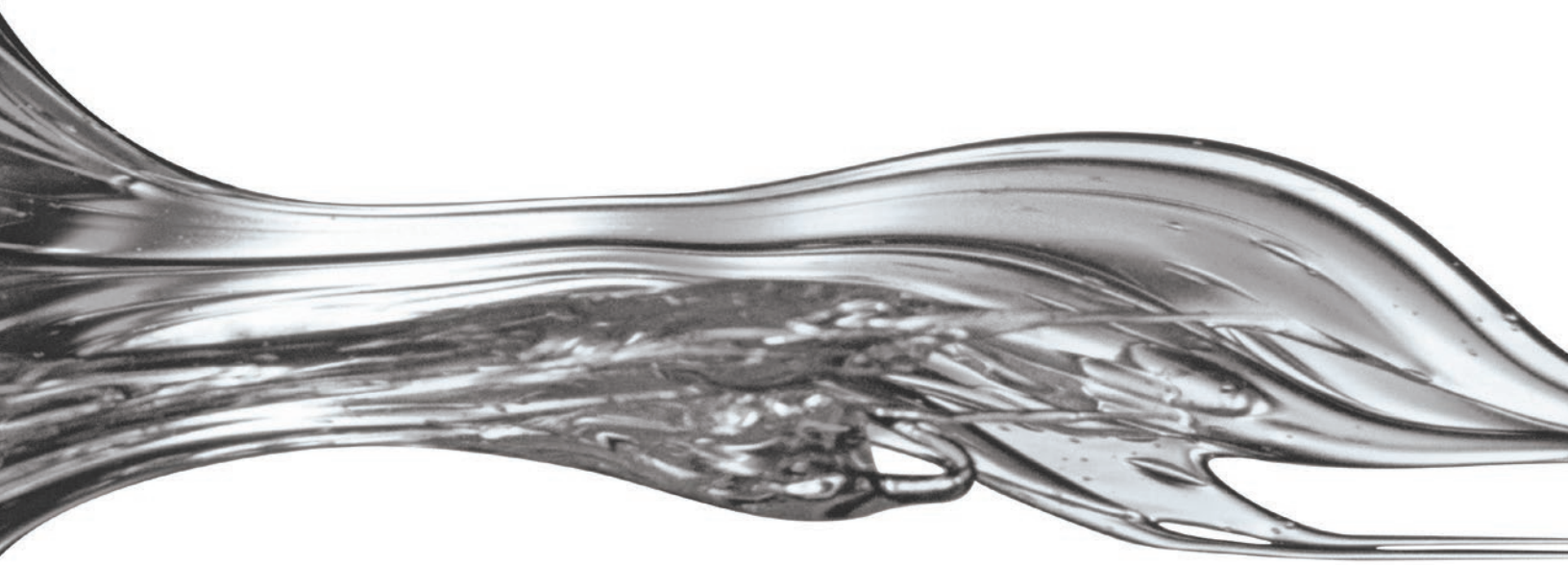
Healthcare Solutions

DUPONT™

Liquid silicone rubber

Application and product selection guide



LIMEO™

LIVEO™

Liquid silicone rubber (LSR)

LSRs are pumpable thermoset silicone elastomers that can be processed by molding equipment. They are ideal for intricate designs and close-tolerance parts.

Innovation meets expertise

You want to explore new directions and create the next generation of medical device technology. You have a powerful ally with DuPont™ Liveo™. When we are part of your team, you're backed by our expertise and our culture of discovery and innovation, nurtured by six decades of proven performance. You'll find a depth of knowledge not just in silicone chemistry, but in the medical device industry, process technology, and regulatory compliance.

Benefits	Product Description	Typical Applications	Products	Biocompatibility Testing: Cytotoxicity	Mutagenicity/ Genotoxicity	Hemolysis	Skin Sensitization	Pyrogenicity (USP)	90-Day Implant	30-Day Implant	7-Day Implant	USP Class V and VI	Select European Pharmacopeia 3.1.9: Substance Soluble in Hexane	Volatile Matter	Food Grade Compliance*	Hardness, Shore A	Tensile Strength (MPa/psi)	Elongation at Break (%)	Tear Strength, Die B (kN/m/ppi)	Relative Density
Liveo™ BioMedical Grade Liquid Silicone Rubber • DMF (drug master file) access available upon request for select Liveo™ BioMedical Grade materials	• High-quality, consistent materials for critical applications • Manufactured in a dedicated healthcare facility	Two-part (1:1 by weight), platinum-catalyzed, liquid silicone rubber materials	• Injection molding of precision and intricate parts of medical devices (O-rings, stoppers and closures) • Mesh or fabric coating	Liveo™ 7-6830 BioMedical Grade Liquid Silicone Rubber[1]	•	•	•	•	•	•	•	•	•	•	•	30	8.8/1280	790	24.1/140	1.13
				Liveo™ 7-6840 BioMedical Grade Liquid Silicone Rubber[1]	•	•	•	•	•	•	•	•	•	•	•	40	9.8/1430	700	36.8/210	1.13
				Liveo™ Q7-4840 BioMedical Grade Liquid Silicone Rubber[1]	•	•	•	•	•	•	•	•	•	•	•	44	9.4/1370	540	36.8/210	1.12
				Liveo™ Q7-4850 BioMedical Grade Liquid Silicone Rubber[1]	•	•	•	•	•	•	•	•	•	•	•	50	10.1/1470	630	45.1/260	1.15
				Liveo™ 7-4860 BioMedical Grade Liquid Silicone Rubber[1]	•	•	•	•	•	•	•	•	•	•	•	60	8.8/1280	540	50.9/290	1.10
				Liveo™ 7-4870 BioMedical Grade Liquid Silicone Rubber[1]	•	•	•	•	•	•	•	•	•	•	•	66	9.5/1380	420	47.4/270	1.15
	• Improved molding performance • Formulated to significantly reduce mold fouling • Enhance throughput and limit cleaning and change-outs over time • Improved mechanical properties like tear strength and compression set			Liveo™ Q7-7840 BioMedical Grade Liquid Silicone Rubber[1]	•	•	•	•	•	•	•	•	•	•	•	40	9.3/1360	750	30.7/175	1.14
				Liveo™ Q7-7850 BioMedical Grade Liquid Silicone Rubber[1]	•	•	•	•	•	•	•	•	•	•	•	50	9.0/1310	660	48.2/275	1.13
				Liveo™ Q7-7870 BioMedical Grade Liquid Silicone Rubber[1]	•	•	•	•	•	•	•	•	•	•	•	67	9.4/1370	415	45.6/260	1.14
Liveo™ 7-9600 Soft Filling Elastomer	• Transparent • Low viscosity	Two-part (1:1 by weight), platinum catalyzed, soft, filler-less elastomer	• Filling material for external prostheses and pressure cushions	Liveo™ 7-9600 Soft Filling Elastomer	•	•	•	•	•	•	•	•	•			Contact your Dupont account representative for further information.				
Liveo™ C6 Series LSR	• Highly reproducible and stable materials • Manufactured in a dedicated healthcare facility	Two-part (1:1 by weight), platinum-catalyzed, liquid silicone rubber materials	• Injection molding of precision and intricate parts of medical devices (O-rings, stoppers and closures) • Mesh or fabric coating • Implantation applications ≤29 days	Liveo™ C6-530 Liquid Silicone Rubber	•			•			•	•	•	•	•	30	8.2/1190	830	26.3/150	1.13
				Liveo™ C6-540 Liquid Silicone Rubber	•			•			•	•	•	•	•	40	8.9/1290	740	42.1/240	1.13
				Liveo™ C6-550 Liquid Silicone Rubber	•			•			•	•	•	•	•	50	10.4/1520	660	44.7/255	1.14
				Liveo™ C6-560 Liquid Silicone Rubber	•			•			•	•	•	•	•	60	8.8/1280	540	50.9/290	1.10
				Liveo™ C6-570 Liquid Silicone Rubber	•			•			•	•	•	•	•	65	9.1/1320	440	54.4/310	1.15
				Liveo™ C6-720 Liquid Silicone Rubber	•			•			•	•	•	•	•	23	6.5/943	750	26.0/148	1.14
				Liveo™ C6-740 Liquid Silicone Rubber	•			•			•	•	•	•	•	40	8.6/1250	680	30.7/175	1.14
				Liveo™ C6-750 Liquid Silicone Rubber	•		•	•			•	•	•	•	•	50	8.8/1280	610	42.1/240	1.13
	• Improved molding performance • Formulated to significantly reduce mold fouling • Enhance throughput and limit cleaning and change-outs over time • Improved mechanical properties like tear strength and compression set • No need for post cure to stabilize physical properties • Manufactured in a dedicated healthcare facility			Liveo™ C6-770 Liquid Silicone Rubber	•		•	•			•	•	•	•	•	67	9.3/1360	450	42.1/240	1.14

1 Use of this material for implantation ≥ 30 days requires indemnification
* Contact your DuPont representative for area-specific information

▲ Biocompatibility potential based on test data from analogous materials

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LIVEO™

To learn more about DuPont's healthcare solutions visit:
www.dupont.com/healthcare.html

For country-level information, visit:
www.dupont.com/corporate-functions/our-company/global-locations.html

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Form Number: 001-20385-CDP, REV1, 0521