

## High consistency rubber

Application and product selection guide







# High consistency

### Innovation meets expertise

	High consistency	Innovation me										an Ban								
8 8 8	rubber (HCR) HCRs are millable thermoset silicone elastomers that can	You want to explore ne next generation of mec have a powerful ally wi are part of your team, y and our culture of disco	w directions and create the dical device technology. You ith DuPont <sup>™</sup> Liveo <sup>™</sup> . When we you're backed by our expertise overy and innovation, which has			Biocompatibility Testing							Select Europe Pharmacopei	3.1.9						
	be extruded continuously to form a desired size and shape before curing. Silicone tubing is an example. Benefits	been nurtured by six de You'll find a depth of kr chemistry, but in the m technology, and regula <b>Product Description</b>	ecades of proven performance. nowledge not just in silicone edical device industry, process tory compliance. <b>Typical Applications</b>	Droducts	ytotoxicity	Autagenicity/Genotoxicity	łemolysis	kin Sensitization Vrogenicity (USP)	0-Day Implant	0-Day Implant	-Day Implant	JSP Class V and VI	ubstance Soluble Hexane	olatile Matter/	:ood Grade Compliance*	lardness, Shore A	ensile Strength MPa/psi)	longation t Break (%)	ear Strength, bie B (kN/m/ppi)	elative Density
				Products				<u> </u>	. Oi	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~		м. <u>=</u>		ш		με	ы ш ————————————————————————————————————		<u>~</u>
Liveo <sup>™</sup> BioMedical Grade Elastomers	2			Liveo <sup>™</sup> Q7-4720 BioMedical Grade ETR Elastomer <sup>1</sup>	•	•	•	•••	•	•	•	•	•	•	•	23	8.9/1300	1310	31.6/180	1.11
<ul> <li>DMF (drug master file) access available upon request for select Liveo<sup>™</sup> BioMedical Grade materials</li> <li>Liveo<sup>™</sup> BioMedical Grade Bases</li> </ul>				Liveo <sup>™</sup> Q7-4735 BioMedical Grade ETR Elastomer <sup>1</sup>	•	•	•	•••	•	•	•	•	•	•	•	36	9.3/1350	1180	36.8/210	1.12
	ials			Liveo <sup>™</sup> Q7-4750 BioMedical Grade ETR Elastomer¹	•	•	•	• •	•	•	•	•	•	•	•	50	10.0/1450	930	45.6/260	1.16
	Excellent batch-to-batch reproducibility for	Two-part (1:1 by weight), platinum-catalyzed, enhanced tear-resistance silicone elastomers	<ul> <li>Fabrication of extruded parts</li> <li>Fabrication of molded medical/surgical/ diagnostic devices and components</li> </ul>	Liveo <sup>™</sup> Q7-4765 BioMedical Grade ETR Elastomer <sup>1</sup>	•	•	•	• •	•	•	•	·	•	•	•	65	8.0/1160	900	45.6/260	1.20
	critical applications <ul> <li>Manufactured in a dedicated healthcare facility</li> </ul>			Liveo" Q7-4780 BioMedical Grade ETR Elastomer <sup>1</sup>	•	•	•	•••	•	•	•	•	•	•	•	77	7.8/1130	660	42.1/240	1.20
				Liveo <sup>®</sup> Q7-4535 BioMedical Grade ETR Elastomer <sup>12</sup>	•	•	•	• •	•	•	•	•	•	•	•	36	8.1/1180	830	24.6/140	1.12
<ul> <li>DMF (drug master file) access available upon request for select Liveo<sup>™</sup> BioMedical Grade materia</li> </ul>				Liveo <sup>™</sup> Q7-4550 BioMedical Grade ETR Elastomer <sup>1,2</sup>	•	•	•	• •	•	•	•	•	•	•	•	48	9.3/1360	680	31.6/180	1.16
• Must add peroxide				Liveo <sup>™</sup> Q7-4565 BioMedical Grade ETR Elastomer <sup>1,2</sup>	•	•	•	•••	•	•	•	•	•	•	•	67	7.9/1150	620	38.6/220	1.20
Liveo <sup>™</sup> C6 Series		Two-part (1:1 by weight), platinum-catalyzed, enhanced		Liveo" C6-135 Elastomer	•			•		•	•	•	•	•	•	36	8.2/1200	1120	35.1/200	1.12
Liveo <sup>™</sup> C6 Series Elastomers		tear-resistance silicone elastomers		Liveo <sup>™</sup> C6-150 Elastomer	•			•		•	•	•	•	•	•	50	10.6/1540	980	42.1/240	1.16
				Liveo <sup>™</sup> C6-165 Elastomer	•			•		•	•	•	•	•	•	61	8.0/1170	940	42.1/240	1.21
	<ul> <li>Highly reproducible and stable materials</li> <li>Manufactured in a dedicated healthcare facility</li> <li>Improved cost efficiency</li> </ul>		<ul> <li>Fabrication of extruded parts</li> <li>Fabrication of molded medical/surgical/ diagnostic devices and components</li> </ul>	Liveo <sup>™</sup> C6-180 Elastomer	•			•		•	•	•	•	•	•	77	7.2/1050	610	38.6/220	1.21
Liveo <sup>™</sup> C6 Series Elastomers • Must add peroxide		One-part, high-consistency rubber base		Liveo <sup>™</sup> C6-235 Elastomer <sup>2</sup>	•			•		•	•	•	•	•	•	37	7.5/1100	810	21.1/120	1.12
				Liveo <sup>™</sup> C6-250 Elastomer <sup>2</sup>	•			•		•	•	•	•	•	•	49	8.2/1200	530	26.3/150	1.16
				Liveo <sup>™</sup> C6-265 Elastomer <sup>2</sup>	•			•		•	•	•	•	•	•	66	8.2/1200	560	35.1/200	1.20
Liveo <sup>™</sup> QP1 Elastomers	Choice of cure systems (peroxide/platinum)	One-part, high-consistency rubber base	Fabrication of extruded parts     Fabrication of molded medical/surgical/	Liveo <sup>™</sup> QP1-30 Silicone Elastomer³	•						•	•			•	28	9.5/1390	790	12.3/70	1.09
Base, must add curatives	Manufactured under ISU quality system requirements		diagnostic devices and components	Liveo <sup>™</sup> QP1-50 Silicone Elastomer³	•						•	•			•	48	11.8/1720	545	15.8/90	1.13
				Liveo <sup>™</sup> QP1-60 Silicone Elastomer³	•						•	•			•	57	13.0/1890	535	21.1/120	1.16
				Liveo <sup>™</sup> QP1-70 Silicone Elastomer <sup>3</sup>	•						•	•			•	68	12.6/1835	470	24.6/140	1.20
Liveo <sup>™</sup> C6 Series Elastomers	Lower hysteresis for demanding applications (i.e. peristaltic pump tubing)	Two-part (1:1 by weight), platinum-catalyzed, enhanced tear-resistance silicone elastomers	<ul> <li>Fabrication of extruded parts</li> <li>Fabrication of molded medical/surgical/ diagnostic devices and components</li> </ul>	Liveo <sup>™</sup> C6-350 LH Elastomer	•			•		•	•	•	•	•	•	49	8.5/1240	730	38.6/220	1.15

Low hysteresis

Use of this material for implantation ≥ 30 days requires indemnification
 1.0 parts Di(2,4-Dichlorobenzoil) peroxide compounded with 100 parts base molded 5 min at 115°C (240°F)
 1.2 parts Di(2,4-Dichlorobenzoil) peroxide compounded with 100 parts base molded 5 min at 115°C (240°F)

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