

XIAMETER[®] Brand Fluorosilicone Rubber

Feature / Application	Product	Specific Gravity	Durometer, Shore A	Tensile, Die C, MPa (psi)	Tear Strength, Die B, kN/m (ppi)	Elongation at Break, Die C %	Compression Set, 22 hr/177°C (351°F), %	Volume Swell in ASTM Reference Fuel B, 24 hr/23°C (73°F), %	Comments
		TEST METHOD ASTM D792	TEST METHOD ASTM D2240	TEST METHOD ASTM D412	TEST METHOD ASTM D624	TEST METHOD ASTM D412	TEST METHOD ASTM D395 Method B	TEST METHOD ASTM D471	
General purpose	LS-2840	1.43	38	10.1 (1470)	26.7 (152)	519	13	18	Designed to meet Mil-R-25988B, class 1, Grade 40.
	LS 5-8754	1.5	53	8.7 (1260)	37.8 (216)	270			
	LS-2860	1.46	58	10.0 (1460)	31.2 (178)	361	13	17	Designed to meet Mil-R-25988B, class 1, Grade 60.
High strength (tensile and tear)	LS 5-8740	1.42	44	10.1 (1460)	35.7 (204)	560	18	20	
	LS 5-8760	1.47	60	9.6 (1390)	42.4 (242)	430		18	
	LS 5-2040	1.43	40	12.1 (1750)	38.5 (220)	528		18	Retains good properties after adding extending fillers.
	LS 5-2060	1.47	58	10.6 (1540)	46.4 (265)	474	17	18	
High modulus (hard)	LS 4-9080	1.55	81	7.5 (1090)	19.9 (114)	159	11	15	Designed to meet Mil-R-25988B, class 1, Grade 80. Typical 100% modulus = 5.6 MPa (816 psi).
	LS 5-8761	1.45	66	9.9 (1440)	29.1 (166)	342	17	18	

Properties obtained using 1.0 phr XIAMETER[®] RBM-9002 Modifier and 1.0 phr DBPH-50 (DHBP) (2,5-bis (tert-butylperoxy) 2,5 dimethyl hexane) on 1.91mm (0.075-inch-thick) slabs; molded 10 minutes at 171°C (340°F); post-cured 4 hours at 200°C (392°F).

These values are not intended for use in preparing specifications. For exact conditions, see product data sheets.

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Low modulus (soft)	LS 5-8720	1.3	20	8.5 (1230)	22.5 (128)	699			
	LS 5-8725	1.41	25	9.4 (1360)	29.3 (167)	676		23	Typical 100% modulus = 0.4 MPa (60 psi).
	LS 5-8750	1.41	31	9.4 (1370)	21.0 (120)	548	12	18	
Low compression set ^a	LS 4-9040	1.4	40	8.2 (1190)	17.5 (100)	415	10	18	Typical as-molded (10 min./171°C [340°F]) compression set = 11%.
	LS 4-9060	1.45	59	9.2 (1335)	22.8 (130)	348	10	18	Typical as-molded (10 min./171°C [340°F]) compression set = 12%.
	LS 4-9080	1.55	81	7.5 (1090)	19.9 (114)	159	11	15	Typical as-molded (10 min./171°C [340°F]) compression set = 25%.

Properties obtained using 1.0 phr XIAMETER® RBM-9002 Modifier and 1.0 phr DBPH-50 (DHPBP) (2,5-bis (tert-butylperoxy) 2,5 dimethyl hexane) on 1.91mm (0.075-inch-thick) slabs; molded 10 minutes at 171°C (340°F); post-cured 4 hours at 200°C (392°F).

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^a Post curing the finished good may be required; please contact a XIAMETER technical representative for more information.

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