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FSE Fluorosilicone Rubber Base Selection Guide

Grade	Polymer properties									Process					Description	Typical Use	
	Specific Gravity	Duro (Shore A pts)	Tensile (MPa)	Elongation (%)	Tear kN/m	Compression Set, % 22h @ 177°C	Resilience, %	Change in volume, %, in Fuel B for 22 hours @ 23°C	Change in volume, %, in Fuel C for 22 hours @ 23°C	tr10, °C	Compression	Transfer	Injection	Extrusion			Calendering
FSR-1000 Series: Good resistance to compression set																	
FSR-1040	1.40	38	8.7	400	16	10	35	+15	-	-60	O	O		O	O	Low compression set, easily pigmented, excellent chemical resistance, retained properties over a wide temperature range.	Molded, extruded and calendered goods
FSR-1060	1.46	60	9.1	330	20	9	23	+15	-	-60	O	O		O	O		
FSR-1070	1.47	70	8.5	300	16	13	26	+14	-	-60	O	O		O	O		
FSR-1080	1.49	79	7.3	150	15	12	25	+14	-	-60	O	O		O	O		
FSR-1100 Series: General Purpose																	
FSR-1140	1.44	39	9.8	510	28	13	-	+15	-	-60	O	O		O	O	Easily pigmented, excellent chemical resistance, retained properties over a wide temperature range.	Molded, extruded and calendered goods
FSR-1150	1.46	51	9.5	380	26	15	-	+16	-	-60	O	O		O	O		
FSR-1160	1.47	60	9.0	325	24	16	-	+16	-	-60	O	O		O	O		
FSR-1170	1.48	70	8.5	230	17	22	-	+15	-	-60	O	O		O	O		
FSR-1200 Series: High Tear Strengths																	
FSR-1240	1.44	40	10.2	510	38	15	23	+20	-	-60	O	O		O	O	High tear strengths, good processing, easily pigmented, excellent chemical resistance, retained properties over a wide temperature range.	Molded, extruded and calendered goods
FSR-1250	1.47	50	9.8	430	41	23	21	+20	-	-60	O	O		O	O		
FSR-1260	1.48	61	9.3	350	38	25	21	+20	-	-60	O	O		O	O		
FSR-1400 Series: High resilience																	
FSR-1440	1.40	40	8.5	380	15	10	35	+18	-	-60	O	O		O	O	High resilience, easily pigmented, excellent chemical resistance, retained properties over a wide temperature range.	Molded, extruded and calendered goods
FSR-1450	1.44	50	9.8	330	18	7	35	+18	-	-60	O	O		O	O		
FSR-1470	1.45	70	9	200	16	14	37	+20	-	-60	O	O		O	O		
FSR-1400I Series: for injection molding																	
FSR-1440I	1.42	42	9.1	365	15	10	44	-	+21	-60	O	O	O	O	O	Excellent balance between processability and sealing performance, excellent chemical resistance and low temperature flexibility. Very good resiliency and compression set.	Injection, calendering and compression molding of various parts
FSR-1450I	1.44	50	9.6	310	19	7	43	-	+20	-60	O	O	O	O	O		
FSR-1460I	1.45	59	9.8	305	19	8	42	-	+19	-60	O	O	O	O	O		
FSR-1470I	1.46	71	10.1	230	20	9	38	-	+18	-60	O	O	O	O	O		
FSR-1400H Series: High tensile																	
FSR-1460H	1.46	60	11.5	380	29	10	-	-	+21	-60	O	O		O	O	Excellent mechanical properties, good processing, easily pigmented, excellent chemical resistance, retained properties over a wide temperature range.	Molded and calendered articles requiring high tensile strength
FSR-1470H	1.48	69	11.3	340	30	11	-	-	+20	-60	O	O		O	O		
FSR-1000Z Series: For turbo charger hose purpose																	
FSR-1060Z	1.46	60	9	320	20	12	-	+14	-	-60				O	O	Good bonding property, excellent chemical resistance, retained properties over a wide temperature range.For extrusion purpose.	Inner layer of turbo charger hoses
FSR-1070Z	1.48	70	8.5	220	15	13	-	+14	-	-60				O	O		
FSR-1004 Series: Flame retardant																	
FSR-1064	1.46	60	6.8	300	17	33	-	+17	+20	-60	O	O		O	O	UL 94 V0 rated flame retardance, and keep the physical properties well.	Molded and calendered articles requiring UL 94 V0 rated flame retardancy
FSR-1074	1.48	70	6.5	280	17	35	-	+16	+20	-60	O	O		O	O		
FSR-6470B: designed for the applications in contact with transformer oil, in compliance with the relevant material specification of JB/T8448.1.																	
FSR-6470B	1.44	70	10.2	260	23	10	34	-	-	-60	O	O		O	O	compatible with transformer oil	U-rings or gaskets in contact with transformer oil, where the service temperature may be quite cold
LFSR-1700: addition cure liquid fluorosilicone																	
LFSR-1740	1.44	40	10.2	430	17.2	15	34	+21	-	-60			O			two-component addition cure FVMQ, curable at low temperature	precise components by injection
LFSR-1760	1.40	61	6.9	164	10.2	15	50	+22	-	-60			O				

Note: Properties of the vulcanizates depend on formulation, including curative system, as well as the curing conditions.
Typical data not for specification purpose.

This guide is an overview of the commonly used grades of FSE.
FSE keeps continuous improvement and development of new grades for customer's uses.