

FKM Compound / FFKM Compound Guide

Grade	Mechanical Properties					Heat Aging 250 ×70h			FUEL C Resistance					Low Temperature	Processing Method					Typical Uses
	Specific gravity g/cm2	Hardness Shore A	Tensile Strength Mpa	Elongation at Break %	Compression Set % 200 ×70h	Change in Hardness	Change in Tensile %	Change in Elongation %	Change in Hardness	Change in Tensile %	Change in Elongation %	Change in Volume %	Brittle Temperature	Compressive	Transfer	Injector	Extrusion	Bonding		
BDF: bisphenol curable copolymers. The first letter before the numbers: H-black, KK-brown, KR-Red ,LG-Green ,LB-Blue ,The first number: recipe code ,The second no and the third number: Hardness ,The last number : requirements: 1- low compression set ,2-good hot tear ,for complicated																				
BDF-H2501	1.88	52	8.6	470	30	2	4	-11	-3	-11	-14	4	-25	O	O	O	O	O	O-rings , diaphragm, gaskets, etc	
BDF-H2601	1.9	61	11.6	320	17	2	-9	-10	-3	-8	-16	3	-25	O	O	O	O	O	O-rings and gaskets	
BDF-H2602	1.9	62	11.2	360	20	1	10	-6	-4	-9	-12	4	-25	O	O	O	O	O	Hoses and rubber strips, and other complicated parts	
BDF-H2652	1.9	67	11.8	330	19	2	-11	-11	-3	-14	-14	3	-25	O	O	O	O	O	Hoses and rubber strips, oil seals, and other complicated parts	
BDF-H2701	1.9	70	13.5	240	15	2	-8	-3	-3	-12	-13	3	-25	O	O	O	O	O	O-rings , gaskets. Etc.	
BDF-H2702	1.9	71	13.2	310	19	2	-8	-11	-3	-11	-12	4		O	O	O	O	O	Oil seals, stem seals and other complicated parts with metal bonding	
BDF-H2751	1.92	75	14.8	230	15	2	-4	-10	-3	-13	-17	4		O	O	O	O	O	O-rings , gaskets. Etc.	
BDF-H2752	1.92	75	14.2	290	18	2	-9	-11	-2	-11	-15	4		O	O	O	O	O	Oil seals, stem seals and other complicated parts with metal bonding	
BDF-H2801	1.93	80	15.6	207	17	2	-5	-13	-3	-12	-9	4		O					Orings gaskets and other compression molding parts	
BDF-H2851	1.95	84	14.3	170	25	2	-7	-12	-4	-11	-7	4		O					High pressure resistance O-rings and gaskets	
BDF-H2852	1.95	82	15.3	220	26	2	-2	-8	-2	-15	-10	4		O				O	Oil seals requiring abrasion resistance and miscellaneous high pressure resistance parts	
BDF-H2902	1.95	89	14.8	170	29	2	-3	-9	-3	-7	-14	4		O					High hardness O-rings, gaskets and other parts	
BDF-KK2601	1.92	60	11.2	250	17	1	-4	-10	-3	-10	-11	3	-25	O	O	O	O	O	O-rings , gaskets and other parts	
BDF-KK2652	1.92	66	11.8	280	19	2	-10	-9	-3	-9	-16	3	-25	O	O	O	O	O	Hoses and rubber strips and low hardness oil seals	
BDF-KK2701	1.95	71	14.5	230	16	1	-8	-6	-4	-9	-12	4	-25	O	O	O	O	O	O-rings and gaskets by big scale compression moulds with multi cavities	
BDF-KK2702	2.01	72	14.5	260	17	2	-3	-8	-2	-14	-14	3		O	O	O	O	O	Oil seals, stem seals, crank shaft seals and complicated geometries	
BDF-KR2701	1.92	72	13.5	220	18	2	-8	-3	-3	-12	-13	3		O	O	O	O	O	O-rings , gaskets and other molded parts	
BDF-KR2752	1.92	76	13.5	270	18	2	-8	-11	-3	-11	-12	4		O	O	O	O	O	Oil seals, stem seals, crank shaft seals and complicated geometries	
BDF-KK2801	1.92	81	14	190	20	2	-4	-10	-3	-13	-17	4		O	O	O	O	O	O-rings , gaskets and other sealing parts	
BDF-KK2802	1.92	82	13.8	250	22	2	-9	-11	-2	-11	-15	4		O				O	Oil seals, stem seals, crank shaft seals and complicated geometries	
BDF-KR2852	1.92	82	13.5	240	24	2	-5	-13	-3	-12	-9	4		O					High hardness O-rings, gaskets and other parts	
BDF-LG2701	2.02	70	13.2	230	18	2	-7	-12	-4	-11	-7	4		O	O	O	O	O	O-rings, gaskets. Etc	
BDF-LG2752	2.05	75	13.5	250	23	2	-5	-8	-2	-15	-10	4		O	O	O	O	O	Oil seals, stem seals, crank shaft seals and complicated geometries	
BDF-LB2701	1.98	70	13	230	19	2	-7	-9	-3	-7	-14	4		O	O	O	O	O	O-rings , gaskets and other molded parts	
BDF-LB2752	2.01	75	13.4	250	23	1	-8	-10	-2	-11	-11	3		O	O	O	O	O	Oil seals, stem seals, crank shaft seals and complicated geometries	
BDT: bisphenol curable terpolymers. The first letter before the numbers: H-black, KK-brown, KR-Red ,LG-Green ,LB-Blue ,The first number: recipe code ,The second no and the third number: Hardness ,The last number : requirements: 1- low compression set ,2-good hot tear ,for complicated																				
BDT-H3651	1.99	67	13.2	240	30	2	4	-13	-2	-9	-11	2	-30	O	O	O	O	O	O-rings , gaskets and other molded parts	
BDT-H3752	1.98	74	15.4	280	32	1	-3	-11	-3	-12	-14	1		O	O	O	O	O	Oil seals or other parts requiring metal bonding property, and complicated geometries requiring hot tear resistance	
BDT-H3802	1.98	80	15.8	270	32	2	-6	-10	-3	-13	-11	2		O				O	Oil seals or other parts requiring metal bonding property, and complicated geometries requiring hot tear resistance	
BDT-KR3702	1.92	73	13.5	280	29	1	-8	-13	-2	-8	-10	2	-30	O	O	O	O	O	Oil seals, stem seals, crank shaft seals and complicated geometries	
BDT-KR3752	1.92	77	13.8	260	29	2	-13	-11	-2	-12	-11	2		O	O			O	Oil seals, stem seals, crank shaft seals and complicated geometries	
BDT-KR3801	1.92	79	14.7	210	27	2	-11	-12	-2	-6	-13	2		O	O			O	O-rings , gaskets and other molded parts	
BDT-LG3701	2.02	72	14.3	220	28	2	-10	-11	-2	-12	-11	2		O	O			O	O-rings , gaskets and other molded parts	
BDT-LB3752	2.05	76	14.5	230	30	2	-8	-12	-2	-9	-12	2		O	O			O	Oil seals, stem seals, crank shaft seals and complicated geometries	
BDP: Peroxide curable series, BDPL: peroxide curable low temperature series, BDBR: peroxide cured base resistant series. The first letter before the numbers: H-black, KK-brown, KR-Red ,LG-Green ,LB-Blue ,The first number: recipe code ,The second no and the third number: Hardness ,The last number : requirements: 1- low compression set ,2-good hot tear ,for complicated geometry.																				
BDP-H7701	1.98	73	17.3	290	20	2	-9	-13	-2	-4	-9	2	-35	O	O	O	O	O	injection molding of cylinder head gaskets, O-rings and other complicated geometries	
BDP-H7802	1.98	83	27.2	280	23	1	-11	-12	-2	-5	-8	2		O	O			O	Oilfield packers, heat exchanger gaskets, AED O-rings	
BDP-H7902	1.98	93	27	180	33	1	-3	-11	-2	-6	-10	2		O	O			O	Oilfield packers, heat exchanger gaskets, AED O-rings	
BDP-H9701	1.98	73	24.3	220	22	2	-4	-9	-1	-7	-9	1	-35	O	O	O	O	O	The inner layer of FKM-VQM type turbo hoses	
BDP-K7702	2.03	70	17	250	25	2	-5	-7	-1	-11	-12	2	30	O	O	O	O	O	3rd generation low friction oil seal	
BDPL-H2701	1.98	72	18	192	20	2	-12	-7	-2	-9	-5	3	-40	O	O			O	fuel injector O-ing and other low temperature sealing parts	
BDPL-H3701	1.98	69	18	245	24	2	-14	-8	-3	-11	-6	4	-35	O	O			O	fuel injector O-ing and other low temperature sealing parts	
BDPL-H4701	1.98	70	14	170	22	2	-13	-5	-2	-13	-7	4	-40	O	O			O	fuel injector O-ing and other low temperature sealing parts	
BDBR-H5701	1.98	71	16	190	35	2	-14	-6	-3	-12	-9	3		O	O			O	replacement of AFLAS, sealing parts in oilfield, heat exchangers gaskets	
BDBR-H1701	1.98	70	14	230	32	2	-18	-9	-3	-15	-11	4		O	O	O	O	O	Heat exchanger gasket and other parts requires chemical, steam and acid resistance	
BDFP Perfluoroelastomer : FFKM compounds for specially critical environment																				
FF2870	2.01	70	19.5	160	22									O	O				O-rings, gaskets and other molded parts	
FF3070	2.01	75	16.5	160	25									O	O				O-rings, gaskets and other molded parts	

Note:

- Properties of the vulcanizates depend on formulation, including curative system and fillers (types & ratio), as well as the curing conditions
- Typical data not for specification purpose
- Other compounds could be designed and produced by requested .

Company Name: Tougen Co.,Ltd