

FKM Compound Selection Guide

Grade	color	hardness	TENSILE	ELONGATION	DENSITY	CS	TR10	BT	AGING			OIL 903				FUEL C				ATF GL-5				Property			
		shore A	Mpa	%		% ASTM D395 M/B 200℃*70hr	℃	℃	Hardness	tensile	elongation	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume				
																									250℃*70H		
Oring-Gasket																											
Copolymer																									Change		
DHF-50611NCL	black	48	10.0	280	1.83	30	-18	-30	0	9.9	-22.7	-3	-17.3	1.7	3.0									very low hardness,good mold release,hot tear resistance			
DHF-55622F	black	55	9.2	240	1.83	13	-18	-27	1	3.4	-6.1	-1	-3.3	5.9	2.9									low hardness, low compression set,good mold release			
DHF-60611F	black	60	12.2	230	1.85	13	-17	-25	1	-1.4	-8.3	-1	0.9	9.6	2.9									low CS, good mold release,for various Oring and gaskets			
DHF-70611F	black	70	14.9	225	1.85	18	-17	-22	1	2.3	-4.9	-1	-5.8	11.8	2.7	-3	-19.2	4.1	3.1					good mold release,for various Oring and gaskets			
DHF-75611F	black	75	15.3	200	1.86	19	-17	-20	1	1.2	-3.7	-2	-6.1	8.6	2.5									good mold release,for various Oring and gaskets			
DHF-80611F	black	80	16.2	180	1.86	21	-16	-20	2	-1.8	-9.6	-3	-8.5	7.2	2.5									good mold release,for various Oring and gaskets			
DHF-90611F	black	90	16.6	145	1.86	24	-15	-16	-1	5.4	-4.8	-4	-2.1	14.3	2.3									high hardness, good mold release			
DHF-60011F	brown	60	13.5	240	1.91	12	-18	-26	1	-5.5	-3.8	-2	-1.1	3.9	2.8									good mold release,for various Oring and gaskets, low CS			
DHF70011F	brown	70	15.1	230	1.93	17	-17	-25	1	-2.1	-3.2	-2	-4.7	6.8	2.6	-3	-18.7	3.9	3.0					good mold release,for various Oring and gaskets			
DHF-80011F	brown	80	17.2	180	1.96	18	-16	-20	2	-3.3	-8.1	-2	-7.5	9.7	2.4									good mold release,for various Oring and gaskets			
DHF-60311F	green	60	13.2	230	1.91	12	-18	-27	1	1.3	-2.9	-2	-3.6	10.3	2.7									good mold release,for various Oring and gaskets			
DHF-70311F	green	70	14.1	200	1.92	15	-17	-25	1	4.5	-3.6	-2	-1.7	10.4	2.6	-3	-19.9	4.5	3.0					good mold release,for various Oring and gaskets			
DHF-70511F	gray	70	15.7	190	1.92	15	-17	-22	1	1.6	-1.2	-2	-8.5	15.3	2.6									good mold release,for various Oring and gaskets			
DHF-70032G	brown	70	16.5	245	1.93	28	-17	-30	2	-3.7	8.3									-2	-6.7	-17.3	2.4	Peroxide FKM, Good gearbox oil resistance			
Grade	color	hardness	TENSILE	ELONGATION	DENSITY	CS	TR10	BT	AGING			OIL 903				FUEL C				ATF GL-5				Property			
		shore A	Mpa	%		% ASTM D395 M/B 200℃*70hr	℃	℃	Hardness	tensile	elongation	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume				
																									275℃*70H		
Oring-Gasket																											
Terpolymer																									Change		
DHF-55621T	black	55	11.3	250	1.87	35	-14	-45	1	-7.8	6.9	-3	-5.3	15.6	1.9	-2	-14.7	2.2	2.4					good mold release,high temperature and oil resistance			
DHF60611T	black	60	15.3	230	1.88	18	-14	-40	1	-8.3	9.4	-2	-4.2	8.5	1.8	-2	-15.3	3.2	2.3					good mold release,high temperature and oil resistance			
DHF-70611T	black	70	18.7	220	1.88	20	-13	-36	1	-7.2	8.5	-2	-5.7	13.7	1.8	-2	-13.2	2.9	2.2					good mold release,high temperature and oil resistance			
DHF-80611T	black	80	19.3	180	1.89	22	-13	-31	2	-10.3	9.7	-2	-6.2	10.8	1.6	-2	-14.1	3.0	2.3					good mold release,high temperature and oil resistance			
DHF-60011T	brown	60	13.1	250	1.93	22	-14	-35	1	-9.8	11.3	-2	-3.9	9.3	1.7	-2	-13.9	2.9	2.3					good mold release,high temperature and oil resistance			
DHF-71011T	brown	70	16.4	200	1.96	24	-13	-30	1	-9.3	10.7	-2	-4.4	8.9	1.7	-2	-13.2	3.3	2.3								
DHF-71011GAL	brown	70	16.9	240	1.93	29	-21	-30	2	-3.9	9.6									-2	-5.8	-18.7	2.3	peroxide FKM, low temperature,gearbox oil resistance			
Grade	color	hardness	TENSILE	ELONGATION	DENSITY	CS	TR10	BT	AGING			Engine Oil5W-30				FUEL C				85% 5W-30+15% Fuel C				Property			
		shore A	Mpa	%		% ASTM D395 M/B 200℃*70hr	℃	℃	Hardness	tensile	elongation	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume				
																									230℃*70H		
Valve Oil Seal																											
Copolymer																									Change		
DHF-78632F	black	78	14.1	210	1.86	18	-16	-20	1	7.6	-10.3	1	-28.7	-39.3	1.6	-3	-23.3	3.2	3.5	-5	-23.0	6.9	3.1	good mold flow,metal bonding,for compression and injection molding			
DHF-78022F	brown	78	15.5	230	1.95	18	-16	-21	0	8.5	-6.2	1	-26.3	-35.2	1.5	-3	-21.6	4.6	3.2	-5	-21.3	8.7	2.9				
DHF-78422F	gray	78	14.8	210	1.98	20	-16	-20	1	5.4	-9.3	1	-27.7	-38.6	1.5	-3	-21.9	5.7	3.2	-5	-22.6	11.2	3.0				
DHF-78322F	green	78	15.2	220	1.99	17	-16	-20	1	5.5	-8.7	1	-29.1	-37.2	1.4	-3	-22.1	4.3	3.1	-5	-21.9	9.3	3.0				
Terpolymer																											
DHF-78622T	black	78	14.6	190	1.92	25	-13	-27	0	-4.6	2.9	1	-7.4	-22.3	1.0	-2	-14.3	1.5	2.6	-4	-16.7	10.5	2.8				

DHF-78022T	brown	78	14.9	190	1.99	25	-13	-25	0	-3.2	4.5	1	-6.3	-20.2	0.8	-2	-12.5	-1.2	2.4	-4	-17.9	9.7	2.6	good mold flow,metal bonding,for compression and injection molding
DHF78422T	gray	78	13.8	185	2.05	26	-13	-23	0	-3.9	6.3	1	-7.1	-21.5	0.8	-2	-13.6	-2.3	2.5	-4	-16.6	11.3	2.7	
DHF-78322T	green	78	13.5	200	2.03	23	-13	-25	0	3.7	1.6	1	-8.3	-23.3	0.9	-2	13.9	1.2	2.4	-4	-18.2	10.9	2.7	
Grade	color	hardness	TENSILE	ELONGATION	DENSITY	CS	TR10	BT	AGING			OIL 903				FUEL C				Engine Oil5W-30				Property
									230℃*70H			150℃*70H				23℃*70H				150℃*70H				
		shore A	Mpa	%		% ASTM D395 M/B 200℃*70hr	℃	℃	Hardness	tnesile	elongation	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume	
Crankshaft oil seal																								
CopolymerChange																								
DHF-73632F	black	73	14.3	220	1.86	20	-17	-25	1	4.3	-5.2	-3	-4.9	3.2	2.8	-3	-20.3	5.9	3.4	1	-22.3	-30.2	1.6	good hot tear resistance,good mold release,metal bonding
DHF-73022C	brown	73	16.2	230	1.93	18	-17	-28	1	1.85	-7.5	-3	-5.7	5.1	2.7	-3	-17.9	7.3	3.3	1	-19.1	-27.4	1.7	
DHF-7332F	green	73	14.82	210	1.97	21	-17	-24	1	5.4	-6.9	-3	-5.3	4.6	2.7	-3	-18.4	9.5	3.3	1	-20.6	-28.4	1.7	
Terpolymer																								
DHF-72632T	black	72	13.8	210	1.89	24	-14	-30	0	-2.3	3.7	-2	-4.2	7.9	1.8	-2	-11.2	3.2	2.5	1	-6.6	-20.1	0.9	good hot tear resistance,good mold release,metal bonding,good hot and oil resistance
DHF-73032T	brown	73	14.9	205	1.96	23	-14	-29	0	-3.1	5.2	-2	-3.8	8.3	1.6	-2	-10.6	2.9	2.6	1	-5.3	-19.9	1.0	
DHF-73331T	green	73	14.1	200	1.98	25	-14	-29	0	-2.6	4.5	-2	-4.5	9.9	1.6	-2	-9.7	3.6	2.5	1	-6.0	-21.2	0.9	
Grade	color	hardness	TENSILE	ELONGATION	TENSITY	CS	TR10	BT	AGING			ATF AW-1				ATF AW-1				ATF GL-5				Property
									230℃*70H			150℃*70H				150℃*1008H				150℃*1008H				
		hardness	Mpa	%		% ASTM D395 M/B 200℃*70hr	℃	℃	Hardness	tnesile	elongation	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume	hardness	tensile	elongation	volume	
Gearbox Oil Seal																								
CopolymerChange																								
DHF-75033G	brown	75	17.2	250	1.95	26	-17	-30	1	-4.3	8.7	-2	-0.3	4.9	0.6	-2	-3.7	-16.2	2.2	-2	-5.0	-19.3	2.3	Peroxide FKM,good gearbox oli resistance
Terpolymer																								
DHF-75033GAL	brown	75	17.5	260	1.94	29	-21	-30	2	-3.8	7.3	-2	-1.5	5.4	0.5	-2	-4.1	-17.8	2.1	-2	-6.6	-18.3	2.2	Peroxide FKM,good gearbox oli,low temperature resistance,