



Dowhon FKM Selection Guide/Precompound

Type	Product	F%	S.G.	Mooney Viscosity	Tensile	Elongation	Compression set	TR10	Application	Product features	Recommended Process Method					Test compound formula	
			g/cm ³	ML1+10 @ 121°C	Mpa	%	% ASTM D395 Method B 200°C*70hr	°C			Compression	Transfer	Injection	Extrusion	Calendering		
Bisphenol curing precompound	O-ring and gasket grade															Precompound 100 N990 30 MgO 3 Ca(OH) ₂ 6 Press cure: 180°C @ 5min, Post cure: 230°C @ 24hour ① formula and test condition Precompound 100 N990 30 MgO 9 Press cure: 180°C @ 5min, Post cure: 250°C @ 4hour @fuel line hose formula and test condition Precompound 100 N550 12 MgO 3 Ca(OH) ₂ 6 VPA No. 2 0.5 Aflux 25 1 Press cure: 160°C @ 45min Post cure: 150°C @ 4hour Compression set test: 150°C @ 70hr peroxide formula and test condition Precompound 100 N990 30 ZnO 5 DBPH 3 TAIC 4 18D 0.5 Press cure: 180°C @ 5min, Post cure: 230°C @ 4hour DBPH: 50% 2,5-bis (tert-butylperoxy) 2,5 dimethyl hexane * Suitable ** Very suitable *** Strong recommended	
	Copolymer																
	FD-201C	65.90	1.80	20	12.90	180	16	-17		O-ring or gasket	Low compression set, excellent flow	**	***	***	**		*
	FD-251C	65.90	1.80	25	13.50	200	17	-17		O-ring or gasket	Excellent flow and mold release	**	***	***	**		*
	FD-275C	65.90	1.80	20	13.50	170	14	-17		O-ring or gasket	Low compression set, excellent flow and mold release	**	***	***	**		*
	FD-351C	65.90	1.80	35	14.20	180	13	-17		O-ring or gasket	Low compression set, excellent mold flow and release	***	**	**	*		*
	FD-401C	65.90	1.81	42	14.80	190	15	-17		O-ring or gasket	Low compression set, excellent flow and less fouling	***	*	*			**
	FD-451C	65.90	1.81	45	15.90	190	13	-17		O-ring or gasket	High tensile, low compression set, excellent mold release	***	*	*			**
	FD-451E	65.90	1.81	45	15.00	200	16	-17		O-ring or gasket	Wide molecular weight distribution version of FD-451C	***	*	*			**
	FD-551E	65.90	1.81	56	15.30	180	12	-17		O-ring or gasket	Low compression set, excellent flow and mold release	***					*
	FD-601C	65.90	1.81	65	16.20	190	14	-17		O-ring or gasket	High tensile, low compression set, excellent mold release	***					*
	FD-601E	65.90	1.81	65	15.90	210	18	-17		O-ring or gasket	Wide molecular weight distribution version of FD-601E	***					*
	Terpolymer																
	FD-305F	68.50	1.85	38	14.60	230	25	-14		O-ring or gasket	Excellent flow and mold release, excellent hot and chemical resistance	***	**	**	*		*
	FD-45NCF	69.00	1.87	47	16.00	180	25	-13		O-ring or gasket	Excellent flow, chemical resistance	***	*	*			**
	FD-605F	68.50	1.85	65	16.50	210	27	-14		O-ring or gasket	High Tensile, excellent flow, mold release, hot and chemical resistance	***					*
	High Fluorine content																
	DTR-9071X	70.00	1.90	48	14.10	210	30	-7		O-ring or gasket	Excellent chemical resistance and heat resistance	***	*	*			**
	Bonding grade																
	Copolymer																
	FD-202C	65.90	1.80	20	12.50	240	19	-17		Oil seal, O-ring or gasket	Bonding improved and higher elongation version of FD-201C	**	***	***	**		*
	FD-25NC [®]	65.90	1.80	25	14.50	230	18	-17		Oil seal, O-ring or gasket	Calcium free, excellent bonding and flow, low compression set	**	***	***	**		*
	FD-251HE	65.90	1.80	25	14.20	300	32	-17		Oil seal, complicated bonding product	High elongation, excellent hot part tear resistance	**	***	***	**		*
	FD-331C	65.90	1.80	35	14.50	240	22	-17		Oil seal, complicated bonding product	Excellent flow, mold release and hot part tear resistance	***	**	**	*		*
	FD-351G	65.90	1.80	35	13.80	270	27	-17		Oil seal, complicated bonding product	High elongation, and excellent hot part tear resistance	***	**	**	*		*
	FD-40NC [®]	65.90	1.81	42	14.30	230	18	-17		Oil seal, O-ring or gasket	Calcium free, excellent bonding and flow, low compression set	***	*	*			**
	FD-451X	65.90	1.81	45	14.30	280	20	-17		Oil seal, complicated bonding product	Excellent flow, bonding and hot part tear resistance	***	*	*			**
	FD-601HE	65.90	1.81	65	15.50	320	33	-17		Oil seal, complicated bonding or thick product	High elongation and excellent hot part tear resistance	***	**				*
Terpolymer																	
FD-205F	68.50	1.85	25	14.60	260	27	-14		General compression molding product	Excellent flow, hot and chemical resistance	**	***	***	**	*		
FD-45NPI	68.50	1.85	45	15.30	190	23	-14		General compression molding product	Excellent flow, mold release	***	*	*		**		
FD-461T [®]	68.50	1.85	40	14.60	280	33	-14		Oil seal, complicated bonding product	Calcium free, excellent bonding and hot part tear resistance	***	*	*		**		
Low temperature																	
DTR-8051AL	65.90	1.80	55	17.50	180	16	-21		General compression molding product	Excellent low temperature resistance, high tensile							
DTR-8021AL	65.90	1.80	27	15.60	200	20	-20		Extrusion and molding product	Excellent low temperature resistance, high tensile, easy flow	**	**	**				
Fuel line hose																	
FD-255G [®]	65.90	1.80	25	12.90	300	18	-17		fuel line hose	Excellent extrusion performance				***			
FD-355F [®]	69.00	1.87	27	12.50	280	20	-12		Low permeability fuel line hose	Excellent extrusion, chemical resistance				***	*		
DTR-5915	69.00	1.83	13	12.70	310	22	-12		Low permeability fuel line hose	Bimodal, special termination, Excellent extrusion, fuel resistance				***			
DTR-5925G	69.00	1.87	25	13.90	330	21	-12		Low permeability fuel line hose	Bimodal, special :termination, Excellent extrusion, fuel resistance				***			
High Fluorine content																	
DTR-7820	68.50	1.85	27	19.50	220	35	-13		Extrusion and molding product	Easy flow, excellent resistance to acid, alkali, ATF oil and fuel	**	**	**	**			
DTR-7840	68.50	1.85	45	23.00	200	33	-13		General compression molding product	Easy flow, excellent resistance to acid, alkali, ATF oil and fuel	**	*	*				
DTR-7920	70.00	1.90	27	18.90	230	35	-7		Extrusion and molding product	Easy flow, excellent resistance to acid, alkali, ATF oil and fuel	**	**	**	**			
DTR-7945	70.00	1.90	45	17.20	240	28	-7		General compression molding product	Easy flow, excellent resistance to acid, alkali, ATF oil and fuel	**	*	*				
DTR-7960	70.00	1.90	65	18.30	210	29	-7		General compression molding product	Easy flow, excellent resistance to acid, alkali, ATF oil and fuel	**						
Low temperature																	
DTR-7650GAL	65.60	1.82	50	19.30	240	26	-22		General compression molding product	Excellent resistance to low temperature acid, alkali and ATF oil	**						
DTR-7845GL	68.00	1.85	45	16.70	300	35	-17		General compression molding product	Excellent resistance to low temperature acid, alkali and ATF oil	**						
DTR-7745GL	67.00	1.83	45	15.20	310	36	-24		General compression molding product	Excellent resistance to low temperature acid, alkali and ATF oil	**						