

Fluoroelastomerprecompound/Polymerphysical properties

Type	Product	F%	S.G.	Mooney Viscosity	Tensile	Elongation	Compression set	TR10	Application	Product features	Recommended Process Method					
			g/cm ³	ML+10 (121℃)	Mpa	%	% , RT/24H/100%Mooney 200℃×70hr	℃			Compression	Transfer	Injection	Extrusion	Calendering	
Bisphenol curing precompound	O-ring and gasket grade															
	Copolymer															
	FD-201C	66.00	1.80	20	12.90	180	16	-17	O-ring or gasket	Low compression set,excellent flow	**	***	***	**	*	
	FD-251C	66.00	1.80	25	13.50	200	17	-17	O-ring or gasket	Excellent flow and mold release	**	***	***	**	*	
	DTR-5630	66.00	1.80	30	14.90	206	14	-17	O-ring or gasket	Low compression set, excellent processing performance	***	***	***	**	*	
	DTR-5639	66.00	1.80	39	15.80	226	13	-17	O-ring or gasket	Low compression set, excellent processing performance	***	*	*		**	
	FD-451E	66.00	1.81	45	15.00	200	16	-17	O-ring or gasket	Wide molecular weight distribution version of FD-451C	***	*	*		**	
	FD-551E	66.00	1.81	56	15.30	180	12	-17	O-ring or gasket	Low compression set, excellent flow and mold release	***				*	
	FD-601C	66.00	1.81	65	16.20	190	14	-17	O-ring or gasket	High tensile,low compression set, excellent mold release	***				*	
	Terpolymer															
	FD-202F	68.50	1.85	25	13.70	245	27	-14	O-ring or gasket	Excellent flow and mold release, excellent hot and chemical resistance	***	***	***	**	**	
	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 Terpolymer															
	DTR-9074X	70.00	1.90	40	14.10	208	30	-6	O-ring or gasket	Excellent chemical resistance and heat resistance	**					
	DTR-9075X	70.00	1.90	50	15.70	170	23	-7	O-ring or gasket	Excellent chemical resistance and heat resistance	**					
	Metal bonding grade															
	Copolymer															
	FD-202C	66.00	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 [Ⓢ]	66.00	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	66.00	1.80	25	14.20	300	32	-17	Oil seal, complicated bonding product	High elongation,excellent hot part tear resistance	**	***	***	**	*	
	FD-331C	66.00	1.80	35	14.50	240	22	-17	Oil seal, complicated bonding product	Excellent flow, mold release and hot part tear resistance	***	**	**	*	*	
	FD-351G	66.00	1.80	35	13.80	270	27	-17	Oil seal, complicated bonding product	High elongation, and excellent hot part tear resistance	***	**	**	*	*	
	FD-40NC [Ⓢ]	66.00	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	66.00	1.81	45	14.30	280	20	-17	Oil seal, complicated bonding product	Excellent flow,bonding and hot part tear resistance	***	*	*		**	
	FD-601HE	66.00	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	66.00	1.80	55	17.50	180	16	-21	General compression molding product	Excellent low temperature resistance, high tensile	***	*				
	DTR-8021AL	66.00	1.80	27	15.60	200	20	-20	Extrusion and molding product	Excellent low temperature resistance, high tensile, easy flow	***	**	**			
	Fuel line hose															
	FD-255C [Ⓢ]	66.00	1.80	25	12.90	300	18	-17	fuel line hose	Excellent extrusion performance				***		
	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-5915TV	69.00	1.83	15	10.30	290	23	-12	Low permeability fuel line hose bonded with THV	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				***		
Peroxide curing	General Use															
	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-7840S	67.00	1.83	40	20.30	260	26	-16	General compression molding product	Easy flow, excellent resistance to acid, alkali, ATF oil and fuel	**	*	*		**	
	DTR-7920SP	70.00	1.89	26	21.50	200	22	-7	Extrusion and molding product	Easy flow, excellent resistance to acid, alkali, ATF oil and fuel	**	**	**	**		
	DTR-9705S	70.00	1.90	25	23.50	245	19	-5	Extrusion and molding product	Easy flow, excellent resistance to acid, alkali, ATF oil and fuel	**	**	**	**		
	Turbocharger hose, EGR hose															
	DTR-7604	66.00	1.80	20	16.10	270	32	-17	Turbocharger hose for winding and extrusion	Excellent compound bonding with silicone rubber, excellent resistance to organic acids				***	**	
	DTR-7804	68.50	1.83	20	17.70	230	35	-13	Turbocharger hose for extrusion	Excellent compound bonding with silicone rubber, excellent resistance to organic acids				***	**	
	Low temperature															
	DTR-7650GAL	66.00	1.82	50	19.30	240	26	-22	General compression molding product	Excellent resistance to low temperature acid, alkali and ATF oil	**				**	
	DTR-7530GL	64.00	1.79	30	18.40	255	22	-30	General compression molding product	Excellent resistance to low temperature acid and steam	**	**	**	**		
	DTR-7550NL	65.00	1.80	60	21.00	210	18	-30	General compression molding product	Excellent resistance to low temperature acid and steam	**				**	
	Smart wear															
	DTR-7820P	68.00	1.85	20	18.50	280	27	-15	Smart watch strap, band	Excellent handfeel and skin affinity, excellent colorability, excellent bonding with handfeel oil	**	**	***			
	DTR-7830L	68.50	1.86	30	20.30	380	25	-14	Smart watch strap, band		**	**	**			
	DTR-6720L	67.00	1.83	20	19.80	480	28	-16	Smart watch strap, band		**	**	***			
	DTR-6620P	66.00	1.81	23	18.30	245	24	-18	Smart watch strap, band		**	**	***			

Test compound formula

Precompound	100
N990	30
MgO	3
Ca(OH) ₂	6

Press cure: 180℃ @ 5min,
Post cure: 230℃ @ 24hour

Ⓢ formula and test condition

Precompound	100
N990	30
MgO	9

Press cure: 180℃ @ 5min,
Post cure: 250℃ @ 4hour

Ⓢ fuel line hose formula and test condition

Precompound	100
N550	12
MgO	3
Ca(OH) ₂	6
VPA No. 2	0.5
Alkac 25	1

Press cure: 165℃ @ 45min
Post cure: 150℃ @ 4hour
Compression set test: 125℃ @ 70hr

peroxide formula and test condition

Precompound	100
N990	30
ZnO	5
DBPH	3
TAIC	4
HT-290	0.5

General curing condition:
Press cure: 180℃ @ 5min,
Post cure: 230℃ @ 4hour

Smart wear curing condition:

Press cure: 180℃ @ 5min
Post cure: 180℃ @ 2hour
Compression set test: 100℃ @ 70hr

* Suitable
** Very suitable
*** Strongly recommended