



Fluoroelastomer precompound/Polymer physical properties

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																
	Copolymer																
	DHP-201C	65.90	1.80	20	12.90	180	16	-17	O-ring or gasket	Low compression set, excellent flow	**	***	***	**	*	Precompound	100
	DHP-251C	65.90	1.80	25	13.50	200	17	-17	O-ring or gasket	Excellent flow and mold release	**	***	***	**	*	N990	30
	DHP-275C	65.90	1.80	20	13.50	170	14	-17	O-ring or gasket	Low compression set, excellent flow and mold release	**	***	***	**	*	MgO	3
	DHP-351C	65.90	1.80	35	14.20	180	13	-17	O-ring or gasket	Low compression set, excellent mold flow and release	***	**	**	*	*	Ca(OH) ₂	6
	DHP-401C	65.90	1.81	42	14.80	190	15	-17	O-ring or gasket	Low compression set, excellent flow and less fouling	***	*	*		**	Press cure: 180°C @ 5min, Post cure: 230°C @ 24hour	
	DHP-451C	65.90	1.81	45	15.90	190	13	-17	O-ring or gasket	High tensile, low compression set, excellent mold release	***	*	*		**	① formula and test condition	
	DHP-451E	65.90	1.81	45	15.00	200	16	-17	O-ring or gasket	Wide molecular weight distribution version of FD-451C	***	*	*		**		
	DHP-551E	65.90	1.81	56	15.30	180	12	-17	O-ring or gasket	Low compression set, excellent flow and mold release	***				*		
	DHP-601C	65.90	1.81	65	16.20	190	14	-17	O-ring or gasket	High tensile, low compression set, excellent mold release	***				*		
	DHP-601E	65.90	1.81	65	15.90	210	18	-17	O-ring or gasket	Wide molecular weight distribution version of FD-601E	***				*	Precompound	100
	Terpolymer																
	DHP-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	***	**	**	*	*	N990	30
	DHP-45NCF	69.00	1.87	47	16.00	180	25	-13	O-ring or gasket	Excellent flow, chemical resistance	***	*	*		**	MgO	9
	DHP-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	***				*	Press cure: 180°C @ 5min, Post cure: 250°C @ 4hour	
	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																
DHP-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	**	***	***	**	*	② fuel line hose formula and test condition		
DHP-25NC ^①	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	**	***	***	**	*			Precompound
DHP-251HE	65.90	1.80	25	14.20	300	32	-17	Oil seal, complicated bonding product	High elongation, excellent hot part tear resistance	**	***	***	**	*	N550	12	
DHP-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	***	**	**	*	*	MgO	3	
DHP-351G	65.90	1.80	35	13.80	270	27	-17	Oil seal, complicated bonding product	High elongation, and excellent hot part tear resistance	***	**	**	*	*	Ca(OH) ₂	6	
DHP-40NC ^①	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	***	*	*		**	VPA No. 2	0.5	
DHP-451X	65.90	1.81	45	14.30	280	20	-17	Oil seal, complicated bonding product	Excellent flow, bonding and hot part tear resistance	***	*	*		**	Aflux 25	1	
DHP-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	***	**			*	Press cure: 160°C @ 45min Post cure: 150°C @ 4hour		
Terpolymer																	
DHP-205F	68.50	1.85	25	14.60	260	27	-14	General compression molding product	Excellent flow, hot and chemical resistance	**	***	***	**	*	Compression set test: 150°C @ 70hr		
DHP-45NPI	68.50	1.85	45	15.30	190	23	-14	General compression molding product	Excellent flow, mold release	***	*	*		**			
DHP-461T ^①	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						peroxide formula and test condition		
DTR-8021AL	65.90	1.80	27	15.60	200	20	-20	Extrusion and molding product	Excellent low temperature resistance, high tensile, easy flow	**	**	**					Precompound
Fuel line hose																	
DHP-255G ^②	65.90	1.80	25	12.90	300	18	-17	fuel line hose	Excellent extrusion performance					***	N990	30	
DHP-355F ^②	69.00	1.87	27	12.50	280	20	-12	Low permeability fuel line hose	Excellent extrusion, chemical resistance					***	ZnO	5	
DTR-5915	69.00	1.83	13	12.70	310	22	-12	Low permeability fuel line hose	Bimodal, special termination, Excellent extrusion, fuel resistance					***	DBPH	3	
DTR-5925G	69.00	1.87	25	13.90	330	21	-12	Low permeability fuel line hose	Bimodal, special termination, Excellent extrusion, fuel resistance					***	TAIC	4	
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	**	**	**	**		18D	0.5	
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	**	*	*			Press cure: 180°C @ 5min, Post cure: 230°C @ 4hour		
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	**	**	**	**		DBPH: 50%		
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	**	*				* Suitable ** Very suitable *** Strong recommended		
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	**					©Dowhlon 2014, issued 04/03		
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	**							