



Dowhoo fluoroelastomer precompound physical properties

Product	F%	S.G.	Mooney Viscosity	Tensile	Elongation	Compression set	TR10	Application	Product features	Recommended Process Method					
		g/cm ³	ML1+10 @ 121°C	Mpa	%	% , ASTM D395 Method B 200 °C*70hr	°C			Compression	Transfer	Injection	Extrusion	Calendering	
O-ring and gasket grade															
Copolymer															
DHP-201C	65.90	1.80	20	12.90	180	16	-18	O-ring or gasket	Low compression set, excellent flow	**	***	***	**	*	
DHP-251C	65.90	1.80	25	13.50	200	17	-18	O-ring or gasket	Excellent flow and mold release	**	***	***	**	*	
DHP-275C	65.90	1.80	20	13.50	170	14	-18	O-ring or gasket	Low compression set, excellent flow and mold release	**	***	***	**	*	
DHP-351C	65.90	1.80	35	14.20	180	13	-18	O-ring or gasket	Low compression set, excellent mold flow and release	***	**	**	*	*	
DHP-361E	65.90	1.80	35	15.20	200	16	-18	O-ring or gasket	Wide molecular weight distribution version of DHP-351C	***	**	**	*	*	
DHP-401C	65.90	1.81	42	14.80	190	15	-18	O-ring or gasket	Low compression set, excellent flow and less fouling	***	*	*		**	
DHP-401E	65.90	1.81	42	15.20	190	16	-18	O-ring or gasket	Wide molecular weight distribution version of DHP-401C	***	*	*		**	
DHP-451C	65.90	1.81	45	15.90	190	13	-18	O-ring or gasket	High tensile, low compression set, excellent mold release	***	*	*		**	
DHP-451E	65.90	1.81	45	15.00	200	16	-18	O-ring or gasket	Wide molecular weight distribution version of DHP-451C	***	*	*		**	
DHP-551E	65.90	1.81	56	15.30	180	12	-18	O-ring or gasket	Low compression set, excellent flow and mold release	***				*	
DHP-601C	65.90	1.81	65	16.20	190	14	-18	O-ring or gasket	High tensile, low compression set, excellent mold release	***				*	
DHP-601E	65.90	1.81	65	15.90	210	18	-18	O-ring or gasket	Wide molecular weight distribution version of DHP-601E	***				*	
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	***	**	**	*	*	
DHP-45NCF	69.00	1.87	47	16.00	180	25	-13	O-ring or gasket	Excellent flow, chemical resistance	***	*	*		**	
DHP-505F	68.50	1.85	55	15.90	200	24	-14	O-ring or gasket	Excellent flow and mold release, excellent hot and chemical resistance	***				*	
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	***				*	
Bonding grade															
Copolymer															
DHP-202C	65.90	1.80	20	12.50	240	19	-18	Oil seal, O-ring or gasket	Bonding improved and higher elongation version of DHP-201C	**	***	***	**	*	
DHP-25NC①	65.90	1.80	25	14.50	230	18	-18	Oil seal, O-ring or gasket	Calcium free, excellent bonding and flow, low compression set	**	***	***	**	*	
DHP-251HE	65.90	1.80	25	14.20	300	32	-18	Oil seal, complicated figure molding product	High elongation, excellent hot part tear resistance	**	***	***	**	*	
DHP-261C	65.90	1.80	25	14.70	220	18	-18	Valve stem seals	Bonding improved and higher elongation version of DHP-251C	**	***	***	**	*	
DHP-331C	65.90	1.80	35	14.50	240	22	-18	Oil seal, complicated figure molding product	Excellent flow, mold release and hot part tear resistance	***	**	**	*	*	
DHP-351G	65.90	1.80	35	13.80	270	27	-18	Oil seal, complicated figure molding product	High elongation, and excellent hot part tear resistance	***	**	**	*	*	
DHP-361C	65.90	1.81	35	14.60	200	18	-18	Oil seal or gasket	Bonding improved and higher elongation version of DHP-351C	***	**	**	*	*	
DHP-40NC①	65.90	1.81	42	14.30	230	18	-18	Bonding seals, O-ring or gasket	Calcium free, excellent bonding and flow, low compression set	***	*	*		**	
DHP-451X	65.90	1.81	45	14.30	280	20	-18	Oil seal, complicated figure molding product	Excellent flow, bonding and hot part tear resistance	***	*	*		**	
DHP-50NC①	65.90	1.81	52	14.90	235	16	-18	Bonding seals and gasket	Calcium free, low compression set, excellent flow	***				*	
DHP-601HE	65.90	1.81	65	15.50	320	33	-18	Complicated figure or thick product	High elongation and excellent hot part tear resistance	***	**			*	
Terpolymer															
DHP-205F	68.50	1.85	25	14.60	260	27	-14	General compression molding product	Excellent flow, hot and chemical resistance	**	***	***	**	*	
DHP-45NPI	68.50	1.85	45	15.30	190	23	-14	General compression molding product	Excellent flow, mold release	***	*	*		**	
DHP-461T①	68.50	1.85	40	14.60	280	33	-14	Oil seal, complicated figure molding product	Calcium free, excellent bonding and hot part tear resistance	***	*	*		**	
Hose grade															
DHP-255G②	65.90	1.80	25	12.90	300	18	-18	Fuel line hose	Excellent extrusion performance					***	
DHP-355F②	69.00	1.87	27	12.50	280	20	-13	Low permeability fuel line hose	Excellent extrusion, chemical resistance					***	

Test compound formula

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

② 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

** Very suitable