

Fluoroelastomer / Perfluoroelastomer Selection Guide (Pre-Compound)

Grade	Polymer properties						Process						Description	Typical Use
	Nominal Viscosity ML (1+10) @ 121	Specific Gravity	Fluorine Content	Compression Set, % 70h @ 200	tr10	Volume Increase CM-15 Fuel/23	Compression	Transfer	Injection	Extrusion	Calendering	Bonding		
BDF Series: Miscellaneous applications with the balanced properties between the performance and the processing properties.														
BDF201P	20	1.81	66	16	-17	30%		O	O	O			Excellent rheology, excellent mold release and good compression set	O-rings, gaskets, moulded parts
BDF275P	20	1.81	66	22	-17	30%			O	O			Excellent injection moulding and release property	O-rings, gaskets, moulded parts, and complicated geometries
BDF25P	25	1.81	66	21	-17	30%	O	O	O	O			Excellent mold flow, high elongation / tear resistance	O-rings, gaskets, moulded parts, and complicated geometries
BDF25EP	25	1.81	66	20	-17	30%				O			Good property in rolling, improved extrudability	Extruded hoses / profiles
BDF25IP	25	1.81	66	19	-17	30%		O	O				Good property in processing and rheology	O-rings, gaskets, moulded parts
BDF25CP	25	1.81	66	18	-17	30%	O	O	O	O			Fast cure grade with good property in processing and rheology	O-rings, gaskets, moulded parts
BDF30P	30	1.81	66	18	-17	30%	O	O		O			Excellent rheology, excellent mold release and good compression set	O-rings, gaskets, moulded parts, and complicated geometries
BDF331P	30	1.81	66	23	-17	30%	O	O	O	O	O		High Elongation, good milling characteristic	General purpose, O-ring, gaskets and complicated geometries
BDF361P	30	1.81	66	20	-17	30%	O	O	O	O	O		Excellent mold flow, tear resistance, bonding to metal property	Oil seals, shaft seals and complicated geometries
BDF401P	40	1.81	66	16	-17	30%	O	O	O	O	O		Excellent processing property and low compression set	O-rings, gaskets
BDF401HP	41	1.81	66	16	-17	30%	O	O		O			Excellent mechanical property and low compression set	O-rings, gaskets
BDF60C	43	1.81	66	18	-17	30%	O			O	O		Good milling characteristics	General purpose, O-ring, gaskets and moulded parts
BDF45P	45	1.81	66	20	-17	30%	O	O		O			Higher viscosity version of BDF25P	O-rings, gaskets, moulded parts, and complicated geometries
BDF601P	60	1.81	66	13	-17	30%	O						Higher viscosity version of BDF401P, optimum resistance to compression set	O-rings and gaskets
BDF631P	60	1.81	66	18	-17	30%	O					O	Good hot tear resistance and mold flow, bonding to metal property	Oil seals and complicated geometries
BDT Series: Better resistance to heat & chemicals, as well as good resistance to compression set.														
BDT24611	25	1.85	68	26	-13	15%		O	O	O			Good property in processing and rheology	O-rings, gaskets, moulded parts
BDT2461E	35	1.85	68	28	-13	15%				O			excellent flowability and extrudability, good mold release	Extruded hoses / profiles
BDT40CP	40	1.85	68	23	-13	15%	O	O					Excellent processing property and moderate compression set	O-rings, gaskets
BDT40EP	40	1.85	68	26	-13	15%	O	O		O		O	Good flowability, mold release, and a certain bonding to metal property	Multi-purpose, oil seals, shaft seals, complicated geometries
BDT40P	40	1.85	68	25	-13	15%	O	O	O	O	O		Good flowability, mold release	General purpose, O-rings and gaskets, moulded parts
BDT246-2CP	46	1.86	69	26	-12	14%	O	O	O	O	O		Slightly improved resistance to fluid	General purpose, O-rings and gaskets, moulded parts
BDT601P	60	1.85	68	22	-13	15%	O	O	O	O			Excellent balance of resistance to compression set and fluids	O-rings, gaskets
BDT651P	60	1.85	68	31	-13	15%	O				O	O	Good hot tear resistance, mould flow and metal bonding properties	Multi-purpose, oil seals, shaft seals, complicated geometries
BDTL30P	30	1.80	66	26	-18	31%	O	O	O	O	O		Slightly improved low temperature flexibility	General purpose, O-rings and gaskets, extruded profiles
FSE Compounds														
BDF-H series	-	-	66	-	-17	30%	O	O	O	O	O	O	Black compounds based on BDF polymers, Shore A55-95, to meet ASTM D-2000 class HK	All uses that may be involved
BDF-K series	-	-	66	-	-17	30%	O	O	O	O	O	O	Brown compounds based on BDF polymers, Shore A55-95, to meet ASTM D-2000 class HK	All uses that may be involved
BDF-L series	-	-	66	-	-17	30%	O	O	O	O	O	O	Green compounds based on BDF polymers, Shore A55-95, to meet ASTM D-2000 class HK	All uses that may be involved
Other colors are available by requested														
BDT-H series	-	-	68-69	-	-13	15%	O	O	O	O	O	O	Black compounds based on BDT polymers, Shore A55-95, to meet ASTM D-2000 class HK	All uses that may be involved
BDT-K series	-	-	68-69	-	-13	15%	O	O	O	O	O	O	Brown compounds based on BDT polymers, Shore A55-95, to meet ASTM D-2000 class HK	All uses that may be involved
BDT-L series	-	-	68-69	-	-13	15%	O	O	O	O	O	O	Green compounds based on BDT polymers, Shore A55-95, to meet ASTM D-2000 class HK	All uses that may be involved
Other colors are available by requested														
BDP series	-	-	68	-	-16	23%	O	O	O	O	O	O	Peroxide cure, improved resistance to chemicals, steam and acids	All uses that may be involved
BDQ series	-	-	70	-	-5	7%	O	O	O	O	O	O	Peroxide cure, superior resistance to fluids, steam and acids	All uses that may be involved
BDL series	-	-	64	-	-31	33%	O	O	O	O	O	O	Peroxide cure, superior low temperature flexibility	All uses that may be involved
BDLS series	-	-	67	-	-24	14%	O	O	O	O	O	O	Peroxide cure, excellent low temperature flexibility and resistance to fluids	All uses that may be involved
BDX series	-	-	67	-	-10	10%	O	O	O	O	O	O	Peroxide cure, Outstanding resistance to highly basic media	All uses that may be involved
FSE Perfluoroelastomer Compounds														
FF2870	-	-	-	-	-	-	O						Outstanding resistance to wide range of media except for amines, heat resistance up to 280	O-rings, gaskets, moulded parts
FF3070	-	-	-	-	-	-	O						Outstanding resistance to wide range of media except for amines, heat resistance up to 300	O-rings, gaskets, moulded parts
FF4675	-	-	-	-	-	-	O						Outstanding resistance to wide range of media except for amines, heat resistance up to 315	O-rings, gaskets, moulded parts

Note: Properties of the vulcanizates depend on formulation, including curative system and fillers (types & ratio), as well as the curing conditions.

Typical data not for specification purpose.