



FLUONOX[®]
Fluoroelastomer

Engineered for
demanding applications

Grade	Fluorine Content (%)	TR 10 (°C/F)	Mooney Viscosity, ML (1+10) @ 121°C (250 F)	Hardness (Shore A)	Tensile Strength* MPa (psi)	Elongation at Break* (%)	Compression Set* (%)	Product Description	Remarks
	Internal NMR	ASTM D 1329	ASTM D 1646	ASTM D 2240	ASTM D 412C		ASTM D 395 Method B		
Bispheno Curable									
Bisphenol Curable Copolymers Raw Gums									
KR 210	66.0	-18 (-0.4)	10	77	12.4 (1798)	175	20	Very low viscosity copolymer raw gum	Used for coatings or as a viscosity modifier
KR 220	66.0	-18 (-0.4)	22	74	13.0 (1845)	180	17	Low viscosity copolymer raw gum	General purpose
KR 230	66.0	-18 (-0.4)	30	74	13.0 (1845)	170	16	Medium-low viscosity copolymer raw gum - fast cure	Low Compression set. Injection molding
KR 235	66.0	-18 (-0.4)	28	75	14.4 (2089)	180	17	Medium-low viscosity copolymer raw gum	General purpose. Injection molding
KR 250	66.0	-18 (-0.4)	46	77	14.0 (2031)	190	17	Medium viscosity copolymer raw gum	General purpose. Compression/transfer molding
KR 260	66.0	-18 (-0.4)	55	77	15.0 (2176)	190	17	Medium-high viscosity copolymer raw gum	General purpose
KR 270	66.0	-18 (-0.4)	70	77	15.0 (2176)	190	17	High viscosity copolymer raw gum	General purpose
Cure Incorporated Copolymers									
KB 2250Z	66.0	-18*(0)	25	74	14.2 (2060)	240	25	Excellent mold flow, tear resistance, bonding to metal	Injection molding of complex shapes - Metal bonding
KB 2252	66.0	-18*(0)	25	73	13.4 (1944)	260	18	Excellent mold flow, high elongation/ tear resistance	Injection molding of complex or extruded shapes
KB 2253	66.0	-18*(0)	25	76	14.0 (2031)	200	17	Fast cure rate, excellent mold release	Injection molding, O-rings, gaskets
KB 2255	66.0	-18*(0)	25	75	13.5 (1958)	180	16	Outstanding compression set	Injection molding, O-rings, gaskets. Improved compression set than KB 2253
KB 2259F	66.0	-18*(0)	25	75	14.0 (2031)	175	13	Very good Compression set	Injection molding O-rings, gasket with best compression set
KB 2400Z**	66.0	-18*(0)	40	75	13.2 (1914)	250	25	Excellent mold flow, tear resistance, bonding to metal	Injection/ compression molding of metal-bonded parts
KB 2402**	66.0	-18*(0)	40	74	14.4 (2089)	250	18	Excellent mold flow, high elongation/ tear resistance	Injection/ compression molding of complex shapes
KB 2403**	66.0	-18*(0)	40	77	14.0 (2031)	190	17	Excellent resistance to compression set	Compression, transfer or injection molding of O-rings
Bisphenol/Diamine Curable Terpolymers Raw Gums									
KR 325	68.0	-14 (7)	25	74	12.6 (1827)	195	22	Improved chem. resistance vs Copolymers. Excellent processability	General purpose
KR 370	68.0	-14 (7)	70	76	14.3 (2074)	240	20	High viscosity version of KR 325	Compression molding of oil seals, general purpose
KR 435	68.5	-13 (9)	35	77	12.5 (1813)	200	28	Excellent chemical resistance	Injection molding, coating by solution
KR 470	68.5	-13 (9)	70	76	14.0 (2031)	205	28	High viscosity version of KR 435	Compression molding of oil seals, general purpose
Cure Incorporated Terpolymers									
KR 3300Z	68.0	-14 (7)	30	71	12.5 (1813)	230	27	Excellent tear resistance, bonding to metal	Injection molding of oil seals, metal bonding
KB 4303	68.5	-13 (9)	30	75	12.5 (1813)	190	23	High cross-linking density, excellent compression set resistance	Injection molding of O-rings, gaskets
KB 4602	68.5	-13 (9)	60	75	13.2 (1914)	250	25	Medium cross-linking density, excellent tear resistance	Compression molding of complex shapes
KB 4603	68.5	-13 (9)	60	75	13.5 (1958)	195	23	High viscosity version of KB 4303	Compression molding of O-rings, gaskets
KB 5503	70.0	-7 (19)	48	78	14.0 (2031)	200	27	High visocity, high fluorine, Moudling grade	Compression moduling O-rings & gasket
Low Temperature Bisphenol Curable									
KR 630	66.0	-19 (-2)	30	75	13.5 (1958)	175	19	Low temperature Terpolymer with TR10 at -19°C (-2°F) - Raw gum	Injection molding, general purpose
KB 6253	66.0	-19 (-2)	25	76	14.0 (2031)	175	18	Low temperature Terpolymer with TR10 at -19°C (-2°F) - Cure incorporated	Compression, transfer or injection molding of O-rings
Peroxide curable									
Peroxide Curable Terpolymers									
KR 320P	67.0	-15 (5)	20	70	19.4 (2814)	250	23	Outstanding relaxation behavior	Injection molding - General purpose
KR 340P	67.0	-15 (5)	45	70	19.3 (2799)	280	25	Medium viscosity type of KR 320P	Compression molding - General purpose
KR 520P	70.0	-5 (23)	20	76	20.5 (2973)	210	21	High %F Peroxide cure Terpolymer - Best in class for chemical resistance	Injection molding - General purpose
KR 545P	70.0	-5 (23)	45	72	21.2 (3075)	210	24	Medium viscosity type of KR 520P	Compression molding - General purpose
KR 565P	70.0	-5 (23)	65	72	21.2 (3075)	210	24	High viscosity type of KR 520P	Compression molding - General purpose
KR 525LP	70.0	-5 (23)	25	73	20.0 (2900)	260	25	High % F, Liner peroxide grade	Extrusion, Injection Moudling

***Press cure condition:** 10 min at 170°C (338 F)

Post cure conditions: Bisphenol curable grades: (8+16) hours at 230°C (446 F) // Peroxide curable grades: 4 hours at 230°C (446 F)

**45 Mooney version available

Test compounds:

Using Bisphenol Curable Raw Gum

Raw Polymer	100	Remarks
Bisphenol AF	2 phr	>99,5%
BenzylTriPhenylPhosphonium Chloride	0.5 phr	>99,5%
N-990 carbon black	30 phr	Thermax N-990
Magnesium oxide	3 phr	Kyowamag 1 50
Calcium hydroxide	6 phr	OMM-2

Using bisphenol cure incorporated Copolymers/Terpolymers

Precompound	100	Remarks
N-990 carbon black	30 phr	Thermax N-990
Magnesium oxide	3 phr	Kyowamag 1 50
Calcium hydroxide	6 phr	OMM-2

Using peroxide curable Terpolymer raw gum

Peroxide curable raw gum	100	Remarks
N-990 carbon black	30 phr	Thermax N-990
Luperox 101XL45	3 phr	Arkema
TAIC (100%)	3 phr	>99,0%
Zinc Oxide (ZnO)	5 phr	>99,0%



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