FLUONOX®

Fluoroelastomer

KB2403

Cure incorporated copolymer

Technical Information

FLUONOX® KB2403 is a fluoroelastomer copolymer which consist of HFP and VDF. FLUONOX® KB2403 is Bisphenol AF cureincorporated medium-low viscosity fluoroelastomer, which is suitable for injection, compression moulding, transfermoulding, extrusion and calendaring. FLUONOX® KB2403 grade is an excellent choice for making O rings, gaskets and seals.

Product features

- High cross link density
- Excellent compression set resistance
- Excellent scorch safety
- Improved mould release
- No mould fouling

Properties

Properties	Value	Unit	Method
Appearance	Off white slab		
Specific gravity at 23°C (73F)	1.81	gm/cm^3	ASTM D792
Mooney viscosity ML (1+10)' at 121°C (250F)	23	MU	ASTM D1646
Solubility	Dissolves in ketone and esters		
Shelf stability at room temp.	Excellent		
Fluorine content	66	%	Internal NMR Method

Note – These are typical properties and not to be used for specification purpose

Packaging

Fluonox®KB2403 is available in 25kg box.

Standard formulation of Compound

Formulation	Value		
Fluonox® KB2403	**100**		
N-990 carbon black	30 phr	Thermax N-990	Cancarb Ltd.
Magnesium oxide	3 phr	Kyowamag 150	Kyowa Chemical Industry Co. Ltd.
Calcium hydroxide	6 phr	OMM-2	Ohmi Kagaku Kogyo Co., Ltd

MDR 6min at 177°C (351F), arc 0.5°

Properties	Value	Unit	Method
ML	1.2	lbf x in	ASTM D6601
MH	22.5	lbf x in	ASTM D6601
ts2	1.8	min	ASTM D6601
tc50	2.3	min	ASTM D6601
tc90	3.5	min	ASTM D6601

Physical properties:

Press cure 10 min at 170°C (338F); Post cure 24 hours at 230°C (446F)

Properties	Value	Unit	Method
100% Modulus	7.7 (1116)	MPa (psi)	ASTM D412
Tensile strength	14.0 (2031)	MPa (psi)	ASTM D412
Elongation at break	190	%	ASTM D412
Shore A Hardness	77	Points	ASTM D2240

Compression Set: 70 hours at 200°C (392°F)

Properties	Value	Unit	Method
Compression Set	17	%	ASTM D395 Method B

Note- The values of properties mention in technical data sheet are tested with proprietary materials listed above. Equivalent chemicals can also be used, however under such case; there may be little variation in the value of properties.