

KB2252

Cure incorporated copolymer

TECHNICAL DATA SHEET

TECHNICAL INFORMATION

FLUONOX[®] KB2252 is a fluoroelastomer copolymer which consists of HFP and VDF. FLUONOX[®] KB2252 is Bisphenol AFcure incorporated low viscosity fluoroelastomer. It is suitable for injection, compression and transfer moulding, extrusion and calendaring. FLUONOX[®] KB2252 grade is an excellent choice for making complex shapes and parts where a good hot tear is required (e.g. gaskets).

PRODUCT FEATURES

- Very good hot tear resistance
- Good compression set resistance
- Excellent scorch safety
- Good mould release and no mold fouling
- Very good flow behavior

TYPICAL PROPERTIES

Test parameters	Nominal Value	Unit	Method
Appearance	Off white slab	-	-
Specific gravity at 23°C (73°F)	1.81	gm/cm ³	ASTM D792
Mooney viscosity ML (1+10)' at 121°C (250°F)	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 purposes.

PACKAGING

FLUONOX[®] KB2252 is available in 25kg box.

FLUONOX® KB2252

STANDARD FORMULATION OF COMPOUND

Formulation	Value		
FLUONOX® KB2252	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 (351°F), ARC 0.5°

Properties	Value	Unit	Method
ML	0.8	lbf x in	ASTM D6601
MH	13.6	lbf x in	ASTM D6601
ts2	1.6	min	ASTM D6601
tc50	2.0	min	ASTM D6601
tc90	3.4	min	ASTM D6601

PHYSICAL PROPERTIES

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

Properties	Value	Unit	Method
100% Modulus	4.3 (624)	MPa (psi)	ASTM D412
Tensile strength	13.0 (1885)	MPa (psi)	ASTM D412
Elongation at break	260	%	ASTM D412
Shore A Hardness	73	Points	ASTM D2240

COMPRESSION SET: 70 HOURS AT 200°C (392°F)

Properties	Value	Unit	Method
Compression Set	18	%	ASTM D395 Method B

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

FLUONOX® KB2252

SAFETY AND HANDLING

Handling and processing of fluoroelastomer must be done in ventilated areas to prevent personnel exposure to the fumes liberated during curing or use of cured rubber at high temperatures. During the process, some fumes may generate at high temperatures which are harmful to human beings. Fumes should not be inhaled; eye and skin contact must be avoided. In case of skin contact, flush skin with cold water immediately. In case of eye contact, flush with water immediately and seek medical help. Smoking tobacco or cigarettes should not be allowed in the working area. Mixing agents that contain metallic particulate such as powdered Aluminium can rapidly decompose at high temperatures; therefore do not use metallic particulate as a mixing agent. Fluoroelastomer should be stored away from heat. It should be kept in a clean and dry area where it can be protected until it is used. Please read the Material Safety Data Sheet before handling the product.

Disclaimer

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Warning: Do not use any of FLUONOX® Fluoroelastomer in medical devices that are designed for permanent implantation in the human body. For other medical uses, prior permission of GFL may be sought.

SALES AND TECHNICAL SUPPORT

Corporate & Marketing office:

Gujarat Fluorochemicals Limited
Inox Towers, Plot no. 17, Sector 16/A
Noida-201301, U.P., INDIA
Tel: +91-120-6149600
Fax: +91-120-6149610

Europe

Gujarat Fluorochemicals GmbH
Esplanade 40, 9th Floor
20354 Hamburg, Germany
+49 040 5582 395- 80

Works

Gujarat Fluorochemicals Limited
12/A, GIDC Dahej Industrial Estate.
Tehsil- Vagra, Distt. Bharuch-392130, Gujarat, INDIA
Website: www.fluonox.co.in; www.gfl.co.in
Email: contact@gfl.co.in

Americas

GFL Americas, LLC
1212 Corporate Dr., Suite-540,
Irving, TX 75038, USA
+1 512 446 7700

