

## KR200

### Raw Copolymer

## TECHNICAL DATA SHEET

### TECHNICAL INFORMATION

FLUONOX® KR200 is a high viscosity copolymer consisting of VDF and HFP. It does not contain curatives. It can be cured with diamine or bisphenol AF curing systems. FLUONOX® KR200 shows faster cure, lower Compression set compared to standard Fluoroelastomer copolymers. It can be used for formulation where Explosive Decompression Resistance is required or in a blend with other Fluonox gum or cure incorporated grades to improve tear..

### PRODUCT FEATURES

- Good mould release
- Fast cure
- Reduced mould fouling
- Very Good compression set
- Explosive decompression resistance

### TYPICAL PROPERTIES

Test parameters	Value	Unit	Method
Appearance	Translucent yellow to brown	-	-
Specific gravity at 23°C (73°F)	1.81	gm/cm <sup>3</sup>	ASTM D792
Mooney viscosity ML (1+10)' at 121°C (250°F)	135	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® KR200 is available in 25kg box.

# Fluonox® KR200

## STANDARD FORMULATION OF COMPOUND

Formulation	Value		
FLUONOX® KR200	100		
Bisphenol AF/BTPPC Salt	2.5 phr		GFL
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	4.2	lbf x in	ASTM D6601
MH	27.0	lbf x in	ASTM D6601
ts2	1.1	min	ASTM D6601
tc50	1.5	min	ASTM D6601
tc90	3.0	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	10 (1450)	MPa (psi)	ASTM D412
Tensile strength	15 (2175)	MPa (psi)	ASTM D412
Elongation at break	150	%	ASTM D412
Shore A Hardness	75	Points	ASTM D2240

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

Properties	Value	Unit	Method
Compression Set	20	%	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.

# Fluonox® KR200

## 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 temperature. During the process, some fumes may generate at high temperatures which are harmful for 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 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 mixing agent. Fluoroelastomer should be stored away from heat. It should be kept in 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

FLUONOX® is the brand name of Gujarat Fluorochemicals Limited (GFL) used for its brand of fluoroelastomer. FLUONOX® can be used in applications duly approved by GFL. Customers who plan to use the word FLUONOX® as the trademark on or relation to their fluoroelastomer parts and other products in any style or combination or any manner whatsoever must contact GFL for prior permission for such use. No consumer/user of GFL fluoroelastomer is permitted to claim that their products contain FLUONOX® without prior permission from GFL.

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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

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