

KR525LP

Peroxide curable Raw Terpolymer

TECHNICAL DATA SHEET

TECHNICAL INFORMATION

FLUONOX[®] KR525LP is a low viscosity, high fluorine (>70%) peroxide curable terpolymer. It can be cross-linked using organic peroxides in combination with a coagent.

FLUONOX[®] KR525LP is especially suited for extrusion but it can be used also in compression, injection and transfer molding.

PRODUCT FEATURES

- Outstanding extrusion capabilities
- Good bonding to other rubber substrates
- Very low fuel permeability, best chemical resistance among fluoroelastomers
- High Elongation at break and low modulus combined with very good compressions set

TYPICAL PROPERTIES

Properties	Test Method	Unit	Nominal Value
Appearance	-	-	Off white slab
Specific gravity at 23°C (73°F)	ASTM D792	gm/cm ³	1.90
Mooney viscosity ML (1+10)' at 121°C (250°F)	ASTM D1646	MU	25
Solubility	-	-	Dissolves in ketone and esters
Shelf stability at room temp.	-	-	Excellent
Fluorine content	Internal NMR method	%	70.4

Note: These are typical properties and not to be used for specification purposes.

PACKAGING

FLUONOX[®] KR525LP is available in 25kg box.

FLUONOX® KR525LP

STANDARD FORMULATION OF COMPOUND

Formulation	Value		
FLUONOX® KR525LP	100		
N-990 carbon black	30 phr	Thermax N-990	Cancarb Ltd.
TAIC (100%)	3 phr		
Luperox #101XL45	3 phr		Arkema
ZnO	5 phr		

MDR 6min at 177°C (351°F), arc 0.5°

Properties	Test Method	Unit	Value
ML	ASTM D6601	lbf x in	0.45
MH	ASTM D6601	lbf x in	24.5
ts2	ASTM D6601	min	0.60
tc50	ASTM D6601	min	0.90
tc90	ASTM D6601	min	1.60

PHYSICAL PROPERTIES

Press cure 10 min at 170°C (338°F); Post cure 4 hours at 230°C (446°F)

Properties	Test Method	Unit	Value
100% Modulus	ASTM D412	MPa (psi)	5.0 (725)
Tensile strength	ASTM D412	MPa (psi)	20.0 (2900)
Elongation at break	ASTM D412	%	260
Shore A Hardness	ASTM D2240	Points	73

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

Properties	Test Method	Unit	Value
Compression set	ASTM D395 Method B	%	25

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® KR525LP

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.

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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 Headquarter

Gujarat Fluorochemicals Limited

INOX Towers, 17, Sector-16A,

Noida - 201301 U.P., India

+91 120 6149600

Europe

Gujarat Fluorochemicals GmbH

Regus Center Watermark 14th Floor,

Überseeallee 10, 20457 Hamburg, Germany

+49 40 808074-667/668

Works

Gujarat Fluorochemicals Limited

12/A Dahej, GIDC, Industrial Estate,

Tehsil Vagra, Dist. Bharuch 392130, Gujarat, India

+91 2641 618003

Americas

GFL Americas, LLC

1212 Corporate Dr., Suite-540,

Irving, TX 75038, USA

+1 512 446 7700

