



FKM (Fluoroelastomer)

FKM is copolymer of vinylidene fluoride and hexafluoropropene. The content of fluorine is 66% by weight. It can be molded, extruded or injected into rubber products, such as O-rings, gaskets, seals and diaphragms as well as hoses etc.

Items	26202	26302	26404	26504	26704	26902	26120	26140
Mooney viscosity (ML (1+10) 121°C)	20-29	30-39	40-49	50-59	65-85	90-99	110-129	130-160
Appearance	White or light-yellow flake							
Fluorine content (%)	66							
Density (g/cm ³) 23 °C	1.82±0.02							
Tensile strength after press cure (MPa) 177°C, 10min ≥	8	8	9	9	9	9	10	10
Tensile strength after post cure (Mpa) 230°C, 24H ≥	10	10	11	11	12	12	13	13
Elongation at break after press cure (%) 177°C, 10min ≥	200	200	200	200	200	200	180	180
Elongation at break after post cure (%) 230°C, 24H ≥	180	180	180	180	180	180	160	160
200°C 70H Compressibility 20% Compression set (%) ≤	20	20	20	20	20	20	12	12

Package, storage and transportation:

1. Fluoroelastomer is packed in PE bags in the form of flake, and then packed into carton with net weight 25kg per carton.
2. Fluoroelastomer should be stored in clean, dry and cool warehouse. It can be transported as non-hazardous chemicals and should be far away from pollution sources, sunshine as well as water during transportation.
3. It is suggested that Fluorine fluoroelastomer storing time limit should be one year after production. If exceeding one year, these products should be retested, they could be used continuously after being retested up to grade.



Precompound FKM

Precompound FKM is the copolymer of Hexafluoropropylene (HFP) and Vinylidene Fluoride, with curing system. It has good processing and excellent compression set, and used for producing o-ring, gasket, hose and seals etc.

Grade	Fluorine content%	Density g/cm ³	Mooney viscosity	Compression set	Application
			ML (1+101 21°C)	200°C×70H (%)	
Bisphenol Curing System					
FL-2660	66	1.81	65	16	Excellent compression set, suitable for O ring and gasket etc.
FL-2640	66	1.82	40	15	Good processing and compressing performance, suitable for O ring and Shaped ring
FL-2630	66	1.82	35	16	Good metal bonding, processing and de-molding performance, suitable for gasket, seals and different kinds of rubber accessories
FL-2620	66	1.82	30	14	Good processing performance and Rheological properties, suitable for O ring and shaped ring.
FL-2462	66	1.85	25	15	Excellent resistance of methanol and extrusion performance, suitable for hose and plank stuff.
FL-2464	66	1.85	45	14	Good metal bonding, processing and de - molding performance, suitable for gasket, seals and different kinds of rubber accessories.

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FKM Powder

Polymer Processing Additives (PPA)

FKM powder is one kind of Fluoroelastomer with shape of powder; it could be used as polymer processing additive of engineering plastic like HDPE, LLDPE and PP, in order to improve processing performance.

Main Properties	Specification
Appearance	White granules
Particle size(μm)	600 - 1000
Fluorine content (wt %)	66
Specific gravity (g/cm^3)	1.75 - 1.78
Moisture content ($\leq\%$)	0.3
Tensile strength(mPa)	13.1
Application	Processing aid for blow membrane, cast film; sheet and pipe extrusion; wire and cable, jacket extrusion.
Processing guide	It is suggested that firstly make master batch through extruder with Powder FKM content 2%-3%, then mix with polymer for processing at certain ratio.

Package、storage and transportation:

1. FKM powder is packed in paper drum with 25kg net weight per drum.
2. It should be stored in clean, dry place with temperature below 30°C.