Dynamix

FKM COMPOUND
O'RING APPLICATION

Product Description

Chemical Composition	Copolymer of VF2 + HFP with 66% Fluorine
Application	O'Ring
Colour	Black
Storage stability	Excellent
Form*	Sheets / Slabs (1kg, 5kg or 20kg packing)

*Compounds also available in unvulcanised cord form as per O'ring size

Physical Properties

Grade	Unit	Test Method	HKC O 60	HKC O 70	HKC O 80	HKC O 90
Specific Gravity	gm/cm^3	ASTM D 792	1.86	1.86	1.86	1.86
Hardness (±5)	Shore A	ASTM D 2240	60	70	80	90
Tensile Strength	kg/cm^2	ASTM D 412	100	130	130	130
Modulus @ 100%	kg/cm^2	ASTM D 413	40	55	100	110
Elongation at break	%	ASTM D 412	225	200	180	150
Compression Set 200°C X 70 hrs	%	ASTM D 395 B	13	15	18	20
Heat Aging, 250 °C X 70 hrs		ASTM D 573				
Tensile Change	%		-5	-5	-2	-1
Elongation Change	%		-7	-3	-2	-2
Hardness Change	points		1	0	1	1

Curing Conditions:

Press Cure : 170°C x 10 min.

Oven Cure : 230°C x 24 hrs

(Special Compounds for low post curing time are available on request)

Temperature Resistance

-20° to +200°C

TR10 (temperature of retraction): -16°C

Technical Notes:

O'Ring Compounds are designed for Compression and Transfer moulding. Compounds for Injection moulding are available on request

Above compounds are standard compounds, can be designed as per customers specification i.e. Specific Application such as Heat Resistance, Compression Set, Excellent Chemical resistance, Rheology and Processing.

Colour compounds are available as per specification and colour.

Chemical Resistance

Concentrated acids	Good
Acetone	Poor
Benzene	Fair
Crude oil	Good
Toluene	Good
Fuel C	Good
Gasoline	Good
Ethanol	Good
Methylene chloride	Good
MEK	Poor
MIBK	Poor
Water < 100°C	Fair

Manufactured by:

Techno Polymer Industries

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