

Product description:

KIFK04 ISM FKM A 90 is an fluorocarbon elastomer of group A, which is a co-polymer of Vinylidene fluoride and hexafluoropolypropylene. This saturated polymer is bisphenol curable.

Chemistry:

The fluorine presence enhance the polymer with higher electro-negativity resulting in resistance to variety of non-polar oils and heat resistance

Properties:

Withstands high temperature and is oil resistant. Since saturated it has excellent weather and ozone resistance. Good mechanical properties at higher temperature ranges and fair low temperature resistivity.

Applications:

In places where high temperature alongside oil and chemical resistance with excellent weather properties are required.

Service temperature:

-20 °C to 204 °C

Product ranges:

O-rings, Seals

Physical properties:

S.No	Description	ASTM Test Method	Unit	Specification
I	Hardness	D2240	Shore A	90 +/- 5
II	Density	D792	gm/cc	1.83 +/- 0.05
III	Tensile Strength (Min)	D412	Mpa	10
IV	100% Modulus (Min)	D412	Mpa	7
V	Elongation (Min)	D412	%	100
VI	Compression Set (Max) 22hrs@200°C Compression Set (Max) 70hrs@200°C	D395 Method B	% %	25 35
VII	Heat Ageing 70hrs @250°C Hardness Change Tensile Change (Max) Elongation Change(Max)	D573	Shore A % %	0 to+10 -25 -50
VIII	ASTM : 1 Oil Ageing 70hrs @150°C Hardness Change Tensile Change (Max) Elongation Change (Max) Volume Swelling (Max)	D471	Shore A % % %	-10 to + 5 -15 -20 ±5
IX	ASTM : 3 Oil Ageing 70hrs @150°C Hardness Change Tensile Change (Max) Elongation Change (Max) Volume Swelling (Max)	D471	Shore A % % %	±5 -15 -20 ±10

Note : The above Compound meets as per ASTM D2000 M2 HK 910 B38

The technical datasheets are derived on the basis of the service conditions and end user preference in which the values derived are given over a range of specifications which are cross checked over a variety of trials and approved with the end user conditions and calculated over a prolonged time



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