

## Product description:

KIFK02 ISM FKM A 80 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. Moderate compression set 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.

## Physical properties:

S.No	Description	ASTM Test Method	Unit	Specification
I	Hardness	D2240	Shore A	80 ± 5
II	Density	D792	gm/cc	1.83 ± 0.05
III	Tensile Strength (Min)	D412	Mpa	10
IV	100% Modulus (Min)	D412	Mpa	4
V	Elongation (Min)	D412	%	150
VI	Compression Set (Max) 22hrs@200°C Compression Set (Max) 70hrs@200°C	D395 Method B	% %	20 35
VII	Heat Ageing 70hrs @250°C Hardness Change Tensile Change (Max) Elongation Change(Max)	D573	Shore A % %	+ 10 -25 -25
VIII	ASTM : 1 Oil Ageing 70hrs @150°C Hardness Change Tensile Change (Max) Elongation Change (Max) Volume Swelling (Max)	D471	Shore A % % %	± 10 -20 -20 ± 10
IX	ASTM : 3 Oil Ageing 70hrs @150°C Hardness Change Tensile Change (Max) Elongation Change (Max) Volume Swelling (Max)	D471	Shore A % % %	± 10 -20 -20 ±10

**Note : The above Compound meets as per ASTM D2000 M2 HK 810 A1-10 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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