

## **Product description:**

KIFK08 ISM FKM B 90 is an fluorocarbon elastomer of B group, which is a Ter-polymer of Vinylidene fluoride, hexafluoropolypropylene and tetrafluoroethylene. This saturated polymer is bisphenol curable.

## **Chemistry:**

The fluorine presence enhances the polymer with higher electro negativity resulting in resistance to variety of oils. Also TFE in structure enhances wide range of chemical resistance at elevated temperatures compared to FKM A Copolymers.

## **Properties:**

Improved oil & chemical resistance, better control to volume swell, compression set at elevated temperatures compared to FKM A copolymers and improved low temperature flexibility compared to FKM A groups. Ter-monomer incorporation gives resistance to a wide range of chemicals resistance.

## **Applications:**

In conditions where maximum retention of elastic properties with higher low temperature values compared to FKM A are requirement. In case of extended chemical resistance where resilient properties are inevitable, the compound serves as a perfect replacement for non-resilient materials.

## **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	90 +/- 5
II	Density	D792	gm/cc	1.85±0.05
III	Tensile Strength (Min)	D412	Mpa	10
IV	100% Modulus (Min)	D412	Mpa	5
V	Elongation (Min)	D412	%	100
VI	Compression Set (Max) 22hrs@200°C	D395 Method B	%	25
	Compression Set (Max) 70hrs@200°C		%	35
VII	Heat Ageing 70hrs @150°C	D573	Shore A	±5
	Hardness Change		%	-25
	Tensile Change (Max)		%	-50
VIII	ASTM : 1 Oil Ageing 70hrs @150°C	D471	Shore A	±5
	Hardness Change		%	-15
	Tensile Change (Max)		%	-25
	Elongation Change (Max)		%	±5
IX	ASTM : 3 Oil Ageing 70hrs @150°C	D471	Shore A	±5
	Hardness Change		%	-20
	Tensile Change (Max)		%	-15
	Elongation Change (Max)		%	±10

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