

## **Product description:**

KIFK19 ISM FKM 70 -18°C is a dipolymer of vinylidene fluoride and hexafluoropropylene. This saturated polymer is bisphenol curable.

## **Chemistry:**

The compound improves the dynamic mechanical properties including equi-biaxial stress strain characteristics which prevent the absorbed gas expansion with improved resistance to chain mobility.

## **Properties:**

Lower volumetric swell and higher resistance to wide range of fluids under pressure. The compound offers resistant to combinational fluids which has severe effect on general purpose elastomers and extreme pressure ranges

## **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 ring Seals, Backup rings.

## Physical properties:

S.NO	Description	ASTM Test Method	Unit	Specification
I	Hardness	D2240	Shore A	70 ± 5
II	Density	D 792	gm/cc	1.83±0.05
III	Tensile Strength (Min)	D412	MPa	12
IV	100% Modulus	D412	MPa	3
V	Elongation @ break (Min)	D412	%	175
VI	Compression Set (Max) 22hrs@200°C	D395 Method B	%	15
	Compression Set (Max) 70hrs@200°C		%	20
VII	Heat Aging 70hrs @250°C	D573	Shore A	±5
	Hardness Change		%	±20
	Tensile Change (Max)		%	±20
VIII	ASTM : 1 Oil Ageing 70hrs@ 150°C	D471	Shore A	±5
	Hardness Change		%	-20
	Tensile Change (Max)		%	-25
	Elongation Change (Max)		%	±5
IX	ASTM : 3 Oil Ageing 70hrs@ 150°C	D471	Shore A	±5
	Hardness Change		%	-25
	Tensile Change (Max)		%	-25
	Elongation Change (Max)		%	±5
	Volume Swelling (Max)			

**Note : The above compound meets as per ASTM D 2000 M2 HK 712 A1-10 B37 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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