

## **Product description:**

KINB11 ISM NBR 50 is an acrylonitrile/butadiene compound with medium acrylonitrile (35%) content, compounded with carbon black and is sulfur curable. It is specially compounded for Oil resistance applications.

## **Chemistry:**

With 35% acrylonitrile content the compound shows higher strength, greater resistance to swelling by hydrocarbon oils, and lower permeability to gases. Higher the ACN content higher the properties but reduced low temperature properties.

## **Properties:**

Good mechanical properties especially tensile strength, flexibility, compression set and impermeability to gases. Better low temperature flexibility due to medium ACN content.

## **Applications:**

KINB11 ISM NBR 50 is used where high oil resistance is required. Preferable with products in contact with hot oils

## **Service temperature:**

-40 °C to 107 °C

## **Product ranges:**

Seals.

## Physical properties:

S.NO	Description	ASTM Test Method	Unit	Specification
I	Hardness	D2240	Shore A	50 ± 5
II	Tensile Strength (Min)	D412	Mpa	8
III	Modulus @100% ( Min)	D412	Mpa	1.0
IV	Elongation (Min)	D412	%	350
V	Compression Set (Max) 22hrs @ 100°C Compression Set (Max) 70hrs @ 100°C	D395 Method B	%	20 30
VI	Heat Ageing 70hrs @ 100°C Hardness Change Tensile Change (Max) Elongation Change (Max)	D573	Shore A % %	+ 15 - 20 - 40
VII	ASTM : 1 Oil Ageing 70hrs @ 100°C Hardness Change Tensile Change (Max) Elongation Change(Max) Volume Change (Max)	D471	Shore A % % %	- 5 to + 15 - 25 - 45 - 10 to + 5
VIII	ASTM : 3 Oil Ageing 70hrs @100°C Hardness Change Tensile Change (Max) Elongation Change (Max) Volume Change (Max)	D471	Shore A % % %	0 to - 15 - 45 - 45 0 to + 35

**NOTE: The Above Compound Meets As Per ASTM D2000 M5 BG 508 A14 B14 E014 E034.**

*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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