

Product description:

KINB16 ISM HNBR 75 is an hydrogenated butadiene acrylonitrile copolymer designed primarily for dynamic applications requiring excellent resistance to heat, ozone and non polar hydrocarbon fluids. This is a peroxide cured system to withstand improved resistance to heat and compression set.

Chemistry:

The compound shows higher strength, greater resistance to swelling by hydrocarbon oils, and lower permeability to gases. Hydrogenation reduces the reactive activity of butadiene unsaturation with environment.

Properties:

Excellent mechanical strength at elevated temperatures and oil resistance compared to general purpose nitrile elastomers. Better ozone due to the saturation and fair low temperature flexibility due to high ACN content.

Applications:

In places of high pressure gas/fluid combinations and balanced properties of fluid exposure resistivity, high gas pressure and low temperature withstanding abilities are needed

Service temperature:

-20 °C to 160 °C

Product ranges:

O-Ring seals, Backup rings.

Physical properties:

S.No	Physical Properties	Test Method	Specification
I	Hardness Shore A	ASTM D 2240	75±5
II	Tensile Strength, MPa (Min)	ASTM D 412	20
III	Elongation At Break % (Min)		200
IV	Compression Set 22hrs@150°C,% Max	ASTM D 395 Method B	20
	Compression Set 70hrs@150°C,% Max		30
V	Heat Ageing (70hrs@150°C)		
1	Hardness change Shore A	ASTM D 573	± 15
2	Tensile change % (Max)		± 30
3	Elongation change% (Max)		- 50
VI	Oil ageing ASTM OIL No.1 (70hrs@150°C)		
1	Hardness change Shore A	ASTM D 471	-5 / +10
2	Tensile change % (Max)		-20
3	Elongation change% (Max)		-30
4	Volume change %		± 5
VII	Oil ageing ASTM OIL No.3 (70hrs@150°C)		
1	Hardness change Shore A	ASTM D 471	-15
2	Tensile change % (Max)		-45
3	Elongation change% (Max)		-45
4	Volume change % (Max)		+ 25

NOTE: The Above Compound Meets As Per ASTM D2000 M2 DH 716 A26 B16 B36 EO16 EO36.

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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