

Product description:

KINBO3 ISM LT NBR 90 is an acrylonitrile/butadiene compound with low acrylonitrile (18%) content and is specially compounded for Low Temperature Applications.

Chemistry:

With 18% acrylonitrile content the compound shows Excellent Resistance at Low Temperatures. Higher the ACN content higher the properties but reduced low temperature properties.

Properties:

Excellent Low Temperature Property when compared with Medium ACN content rubber. Provides reduced tendency toward mould fouling. Good sealing force retention. Suitable for Injection moulding.

Applications:

KINBO3 LT ISM NBR 90 is used where exceptional low temperature property is required. It is used in Seals, Vibration Dampers, Hoses, Automotive Applications.

Service temperature:

-45 °C to 107 °C

Product ranges:

Seals.

Physical properties:

S.NO	Description	ASTM Test Method	Unit	Specification
I	Hardness	D2240	Shore A	90 \pm 5
II	Tensile Strength (Min)	D412	Mpa	8
III	Modulus @100% (Min)	D412	Mpa	5.5
IV	Elongation (Min)	D412	%	100
V	Compression Set (Max) 22hrs @ 100°C Compression Set (Max) 70hrs @ 100°C	D395 Method B	%	25 35
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 - 20 - 45 - 45 0 to + 35

NOTE: The Above Compound Meets As Per ASTM D2000 M5 BG 908 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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