

HNBR 85/90 (ED)

This compound is based on a highly saturated grade of HNBR and is cured with a peroxide. It offers good tensile strength and resistance to explosive decompression. This type of HNBR formulation is known to be suitable for upto 5% Hydrogen Sulphide (H₂S), but its resistance to H₂S will require verification.

Press Cure	30 minutes @ 165 °C
Post Cure	4 hours @ 160 °C
Service Temperature Range	- 20°C to 150°C
Peak Working Temperature	+ 160°C

Original Properties
BS ISO 48-2 / ASTM D2240 / ISO 37 (Type 2) / ISO 34-1 (Method C)

	Units	Typical Result
Hardness	ShoreA	86
Hardness	IRHD	87
S.G.	-	1.16

Tensile Strength	MPa	25
M100	MPa	7.1
Elongation to Break	%	419
Tear Strength	N/mm	60

Compression set (24h @ 150°C)
BS ISO 815-1 (Method A)

	Units	Typical Result
Set	%	39

Hot air resistance (72hrs @ 150°C)
BS ISO 188

	Units	Typical Result
Hardness change	ShoreA	-1
Tensile strength change	%	+7
Elongation at break change	%	-28

Immersion in IRM903 oil (72hrs @ 150°C)
BS ISO 1817

	Units	Typical Result
Hardness change	ShoreA	-10
Tensile strength change	%	0
Elongation at break change	%	-8
Volume change	%	+15

Gehman Low Temperature Torsional Stiffness
BS ISO 1432

	Units	Typical Result
Temperature at 70MPa	°C	-21

Rapid Gas Decompression (RGD) testing
ISO 23936-2

312 O ring size ; 150bar-100°C-168hours ; 10:90 CO ₂ :CH ₄	Typical Result
Rating	0000

IMPORTANT NOTE

All information based on judgment is offered in good faith. Where no empirical data for the compound exists Clwyd Compounders Ltd. accepts no liability express or implied as to its validity.

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