

HNBR 80 85 (ED)

This compound is based on a highly saturated grade of HNBR and is therefore cured with a peroxide system. This particular grade of HNBR has outstanding low-temperature performance.

| | |
|---------------------------|---------------------|
| Press Cure | 10 minutes @ 175 °C |
| Post Cure | 4 hours @ 160 °C |
| Service Temperature Range | - 35°C to 150°C |
| Peak Working Temperature | + 160°C |

Original Properties
ASTM D2240 / D412 / D624

| | Units | Typical Result |
|----------|--------|----------------|
| Hardness | ShoreA | 83 |
| S.G. | - | 1.22 |

| | | |
|---------------------|------|------|
| Tensile Strength | MPa | 19.1 |
| M100 | MPa | 8.5 |
| Elongation to Break | % | 223 |
| Tear Strength | N/mm | 39 |

Compression set (24h @ 150°C)
D395

| | Units | Typical Result |
|-----|-------|----------------|
| Set | % | 40 |

Hot air resistance (70hrs @ 150°C)
D573

| | Units | Typical Result |
|----------------------------|--------|----------------|
| Hardness change | ShoreA | +8 |
| Tensile strength change | % | -5 |
| Elongation at break change | % | -10 |

Immersion in IRM901 oil (70hrs @ 150°C)
D471

| | Units | Typical Result |
|----------------------------|--------|----------------|
| Hardness change | ShoreA | -5 |
| Tensile strength change | % | -2 |
| Elongation at break change | % | -8 |
| Volume change | % | +15 |

Immersion in IRM903 oil (70hrs @ 150°C)
D471

| | Units | Typical Result |
|----------------------------|--------|----------------|
| Hardness change | ShoreA | -31 |
| Tensile strength change | % | -22 |
| Elongation at break change | % | -5 |
| Volume change | % | +45 |

Immersion in Methanol (72hrs @ 40°C)
D471

| | Units | Typical Result |
|----------------------------|--------|----------------|
| Hardness change | ShoreA | -17 |
| Tensile strength change | % | -31 |
| Elongation at break change | % | -14 |
| Volume change | % | +14 |

IMPORTANT NOTE

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

Please contact us for further information:

T. +44 1978 810 551

sales@clwydcompounds.com

QC 103 Revision 0 Date Effective 01/01/17

HNBR 80 85 (ED)

This compound is based on a highly saturated grade of HNBR and is therefore cured with a peroxide system. This particular grade of HNBR has outstanding low-temperature performance.

| | |
|---------------------------|---------------------|
| Press Cure | 10 minutes @ 175 °C |
| Post Cure | 4 hours @ 160 °C |
| Service Temperature Range | - 35°C to 150°C |
| Peak Working Temperature | + 160°C |

Original Properties**ASTM D2240 / D412 / D624**

CLWYD COMPOUNDERS LTD | The Elastomeric Compounding Specialists | From Formulation to Application