# Material
# 90 HNBR HN900601

| Version | Released on |
|---|---|
| 02 | 16.07.2026 |

**General Data**

| | |
|---|---|
| Colour: | Black |
| Type of cross-linking: | Peroxidic |

| **Physical Properties** | **Nominal Range** | **Typical Value** | |
|---|---|---|---|
| **Density** ASTM D 1817 | 1.30 ± 0.03 | 1.31 | g/cm³ |
| **Hardness** ASTM D 2240, Shore A | 90 ±5 | 89 | Shore |
| **Tensile strength** ASTM D 412 | > 20.0 | 23.3 | MPa |
| **Elongation at break** ASTM D 412 | > 100 | 134 | % |
| **Modulus** 100 %, ASTM D412 | | 15.6 | MPa |
| **Low temperature resistance** ASTM D 2137, 3 min,Methode C, pass | | -25 | °C |
| **Compression set** ASTM D 395, B, 22 h, 150 °C | < 25 | 15 | % |

**Temperature Range**

| | |
|---|---|
| static: | -25 to 150 °C |

This data sheet supersedes all previous versions. The content is subject to change without prior notice. The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufacturing process and the component geometry. The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

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## Tested after ASTM D 2000: M 4 DH 9 10 _ A26 B16 EO16 EO36

| ASTM Property | | Nominal Range | Typical Value |
|---|---|---|---|
| **Hardness** | Shore | 90.00 ±5 | 89.00 |
| **Elongation at break** | % | min. 100.00 | 134.00 |
| ***A26 Air 70.00h/150.00°C*** | | | |
| **Hardness** | Shore | 10 | 1.00 |
| **Elongation at break** | % | -25 | -22.00 |
| **Tensile strength** | MPa | -15 | -4.00 |
| ***B16 22.00h/150.00°C*** | | | |
| **Compression set** | % | | 15.00 |
| ***EO16 IRM 901 70.00h/150.00°C*** | | | |
| **Hardness** | Shore | -5 to 10 | 2.00 |
| **Tensile strength** | MPa | -20 | -3.00 |
| **Volume change** | % | -10 to 5 | -4.00 |
| **Elongation at break** | % | -30 | -15.00 |
| ***EO36 IRM 903 70.00h/150.00°C*** | | | |
| **Hardness** | Shore | -15 | -8.00 |
| **Volume change** | % | 25 | 8.00 |
| **Tensile strength** | MPa | -40 | -11.00 |
| **Elongation at break** | % | -30 | -11.00 |
| ***F15 3.00min/-25.00°C*** | | | |
| **Low temperature resistance** | °C | -25 | pass |
| ***Z1 MPa*** | | | |
| **Tensile strength** | MPa | min. 20.00 | 22.3 |

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# Regulatory Material Information for 90 HNBR HN900601

This overview reflects the current available conformity documents for this specific material only, applicable at the date of issue identified below, to the best of our knowledge. It is for information purposes only and does not replace the Declarations of Conformity (DoC) or other article or product-based assessments. The DoC are available upon request under the conditions, limitations, and validity periods specified therein.

| **Overview Material related documents:** | **Release Date** | **Expiration Date** |
|---|---|---|
| ROHS and ELV | 08.10.2021 | 08.10.2026 |

Issue Date: 16.07.2026
It is valid until the mentioned expiry dates or other legal changes become effective.

Disclaimer:

This declaration supersedes all previous versions. The content is subject to change without prior notice.

These declarations are based on our technical state of the art level of knowledge and the regulations applicable on the date of issuance. Recommendations for use or any other descriptions or technical characteristics do not constitute any kind of warranty or guarantee (within the meaning of §§ 434, 435, 443, 444 or 633, 639 of the German Civil Code (BGB)), whether express or implied, or of any fitness or suitability for a particular purpose. It is the user's sole responsibility to determine whether the provided information is appropriate and complete for its purposes and the intended use.

The user bears any product safety and product liability risk including risks of end users or consumers such as risk or danger for life, body or health including compliance with statutory or other regulatory or administrative requirements or technical norms relevant for the components or end products including e.g. declarations of conformity, certificates, approvals or third-party verifications, requirements regarding CE marking, market or product safety requirements or other regulatory requirements.

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