ARLANXEO offers three high quality NBR brands, enabling our customers to manufacture products that provide exceptional performance.

www.nbr.arlanxeo.com
ARLANXEO NBR portfolio

ARLANXEO is a leading global supplier of high quality nitrile butadiene rubber (NBR) who offers an extensive portfolio with three brands Perbunan®, Krynac® and Baymod®N. These brands of high performance NBR cover the broad variety of ratio between the non-polar monomer butadiene (50% – 82%) and the polar monomer acrylonitrile (18% – 50%). ARLANXEO meets therefore your demands related to both excellent low temperature flexibility and exceptional resistance to swelling in oils, fuels and greases.

ARLANXEO – Global Leader in NBR
■ Largest NBR capacity producer
■ Leading quality and technology position
■ Global sales force and technical service

Philosophy of ARLANXEO NBR Group
■ Be the NBR partner for our customers
■ Design NBR for our customers
■ Make our customers successful

Selected properties of NBR – comparison with EPDM and SBR

This diagram on the right provides an overview of the property performances of NBR compared to other broadly used elastomers. NBR surpasses these polymers in regards to its resistance to oils, fuels and greases but also to abrasion and wear, gas permeability and sealing force retention.

Perbunan®
Oil resistant, special fast-curing polymer for technical rubber products
■ Exceptional resistance to swelling in oils, fuels and greases
■ Excellent low temperature flexibility and heat resistance
■ Quick processing - very short molding cycles
■ Reduced tendency toward mold fouling and corrosion
■ Low migration and extraction level in food applications

Perbunan® is a special fast-curing NBR rubber enabling very quick molding cycles. Besides their extreme oil resistance, vulcanizates are characterized by a high modulus and a good sealing force retention. The clean Perbunan® grades are – among other properties – designed for molding applications with a reduced tendency toward mold fouling. In addition they are suitable for food and potable water applications.

Applications
Perbunan® is ideal for the automotive, construction and machine industries as well as for food contact applications. It is preferably used for molded rubber parts such as seals, membranes, vibration dampers and pump stators. Furthermore it is also suitable for rubberized fabrics, hoses, roll covers, sheets, conveyor and transmission belts, shoe soles among other applications.
Powdered nitrile butadiene rubber serving as non-extractable and ‘ready to use’ modifier

- Excellent chemical, oil and hydrolysis resistance
- Permanently flexible, elastic and impact resistant
- Good low-temperature flexibility and low fatigue
- Reduce extraction rate of liquid plasticizers
- Improved coefficient of friction in brake applications

Baymod® N serves as a modifier in powder form and improves, in the final product, the resistance to oils, fuels and greases. Its free flowability ensures automatic metering and processing. It is highly compatible with other polar base polymers such as PVC or Phenolic Resins. Thermoplastics modified with Baymod® N remain permanently flexible and elastic while also being impact-resistant. Furthermore, it enables a very low extraction rate of plasticizers.

Krynac® is used in various applications for the automotive, industrial equipment, machinery, shoe soles and flooring industries. Its extreme resistance to these liquids makes it suitable for a wide range of applications. Moreover, specially produced Krynac® grades feature slow-curing, pre-crosslinked, plasticizer extended and carboxylated types leading respectively to good processing safety, very good extrusion performance and excellent resistance to abrasion and wear.

Applications

- Pre-crosslinked Baymod® N grades provide excellent dimensional stability in extruded soft PVC profiles. In friction materials, they serve as an excellent binder for both fillers and fibers and improves the coefficient of friction.
- Linear Baymod® N grades are soluble in wet processes and therefore used in the rubber industry for gaskets manufactured in a solution process. Additionally, they are used for wet processes in the friction industry as a binder that improves the impact resistance. In the plastic industry they are preferably implemented for soft PVC in injection molding processes.

Krynac® is used in various applications for the automotive, industrial equipment, machinery, shoe soles and flooring. Among many areas of applications it is preferably used for hoses, seals and membranes as well as for roll covers, coated fabrics, sheets, thermal insulation tubes and footwear.
### ARLANXEO NBR bale portfolio

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#### Key property 1

- X = Carboxylated
- 7 = 7% carboxylated Acid
- XL = pre-crosslinked
- M = Mesamoll extended

#### Brand

- **Perbunan®**
- **Krynac®**
- **Baymod®**

#### Special Property:

- XL = pre-crosslinked
- Blank space = linear

#### Baymod® N

- **ACN % content**
- **Partitioning Agent**

#### NBR / PVC Modification

- **Belts**
- **Friction Parts**
- **Oil & Gas Cots**
- **Rubber Articles**
- **Seals**
- **Hoses**
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### ARLANXEO NBR powder portfolio

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Trial product:
(VP = Versuchsprodukt = trial product). The information contained herein is merely preliminary. Testing as to properties and applications is not final. Further information, including data which could change or add hazards with use, may be developed by the manufacturer, the user or a third-party institute. Such information may be needed to properly evaluate or use this product. Use is undertaken at the sole risk of the user.

Quality & Environmental Management:
ARLANXEO NBR is produced under strict control regarding safety, environmental protection and quality. The supply chain, from production to customer service, is covered by ISO 9001 and ISO 14001 certification.

Product Safety:
Relevant safety data and references as well as the necessary hazard warning labels can be found in the Material Safety Data Sheet.

Health and Safety Information:
Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the ARLANXEO products mentioned in this publication. For materials mentioned which are not ARLANXEO products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your ARLANXEO representative or the Health, Safety, Environment and Quality Department (HSEQ) of ARLANXEO.

Regulatory Compliance Information:
Some of the end uses of the products described in this publication must comply with applicable regulations, such as the FDA, BfR, NSF, USDA and CPSC. If you have any questions on the regulatory status of these products, contact your ARLANXEO representative.

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