



EXCELLENCE IN DIMENSIONAL STABILITY NEW KRYNAC® XL 3375 VP FOR EXTRUDED AND CALENDERED PARTS

ARLANXEO a leading synthetic rubber supplier continues to develop NBR products to fulfill demands of high-end customers. Following this goal a new pre-crosslinked grade – **Krynac® XL 3375 VP** – has been developed to fit the new expectations from the market, higher quality without any compromise on production efficiency!

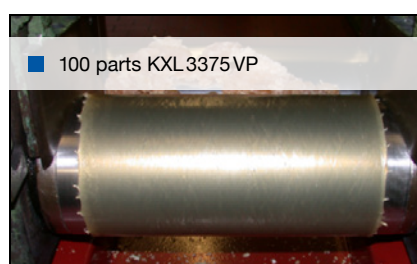
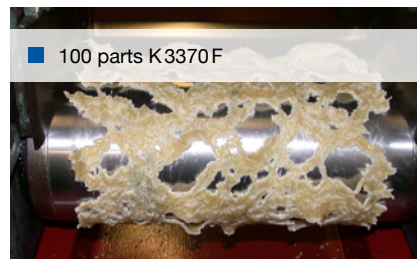
The pre-crosslinked structure of the new **Krynac® XL 3375 VP** allows exceptional performance in terms of dynamical properties such as elongation at break and tensile strength but also for static performance with extremely low compression set values.

Krynac® XL 3375 VP can be used either as sole elastomer in the compound for best extrusion and calendering stability or blended with linear **Perbunan®** or **Krynac®** grades in order to increase gradually dimensional stability. Replacing 25 parts of linear grade with this pre-crosslinked NBR will already give excellent performance in processing.

This new **Krynac® XL 3375 VP** might be use in particular for food regulated applications according to FDA (CFR 21§ 177.2600) and BfR XXI and especially for the production of hose to transport liquid as well as solid foodstuff (e.g. vegetable oil, milk, wine, beer, sugar, etc.).

Krynac®

Blend of **Krynac® XL 3375 VP** with **Krynac® 3370 F** on the mill at 70 °C



Processing excellence

- Dimensional stability in extrusion and calendering
- Good calendering behavior and low shrinkage
- Reduced nerviness on the mill
- Smooth compound's surface and high compound green strength

Properties advantages

- Good oil resistance
- Excellent dynamical performance (elongation at break and tensile strength)
- Improved compression set
- Approved for food contact (FDA CFR §21 177.2600 and BfR XXI)

Typical applications

- Hoses inner parts
- Calendered sheets and articles (rubber lining, semi-finished products, belts, and many others)
- Food contact application



The excellent dimensional stability of **Krynac® XL 3375 VP** allows the production of complex profiles without any compromise in production efficiency

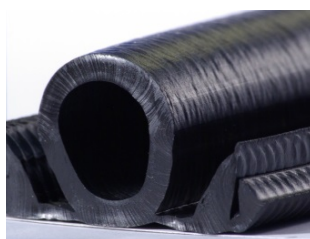
Krynac® XL 3375 VP

Acrylonitrile content	33 w%
ML (1+4) at 100 °C (massed)	75 MU (massed)

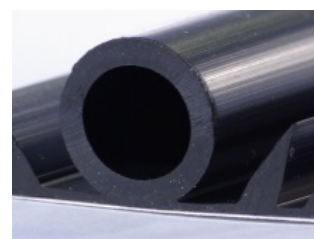
EV based compound	100% Krynac® XL 3375 VP	100% Krynac® 3370 F
Elongation at break	580%	700%
Tensile strength	15 MPa	22 MPa
Modulus 100%	1,6 MPa	1,2 MPa
Die swell	10%	70%
Compression Set (72h/100°C)	20%	24%

Extruded parts of rubber hose compound based on general purpose NBR and the new **Krynac® XL 3375 VP**

Hose compound based on standard NBR



Hose compound based on KXL3375 VP



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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 whole 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 us through 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. The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale, which can be found at the ARLANXEO homepage. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.