



## KRYNAC® 4955 VP

### ULTRA HIGH ACN NITRILE RUBBER WITH BEST FLOWABILITY FOR HEAVY DUTY OIL DRILLING OPERATIONS

**Krynac® 4955 VP** is an ultra-high ACN-nitrile rubber that, thanks to its outstanding resistance against unpolar media, is especially suitable for applications in oil & gas industry. Furthermore it provides an improved flowability assuring that big molds, even with low plasticizer amounts, can be easily filled. Additional advantage is the optimized curing characteristic for mold filling and an improved metal adhesion.

ARLANXEO is already very successfully present in heavy-duty applications with **Krynac® 4975 F** and **Krynac® 4450 F**. **Krynac® 4975 F** offers the ultra-high ACN but shows a higher viscosity whereas **Krynac® 4450 F** offers best flowability but with a lower ACN content. **Krynac® 4955 VP** closes the gap and offers both advantages in one grade.

Especially in the production of large scale parts, like injection molding of mono-pumps that commonly have sizes of several meters length, it is of huge importance to get a process-safe injection with easy flowability and improved scorch behaviour. Additionally reduced injection pressures help to avoid any movements of the core. With **Krynac® 4955 VP** the production of rubber parts with long flow paths is much more simplified and much more safer.

Rheovulcameter molding of standard ISO-compound at 100°C (mold 180°C) shows the excellent flowability of **Krynac® 4955 VP**

based on 100 phr  
Krynac® 4975 F



based on 100 phr  
Krynac® 4450 F



based on 100 phr  
Krynac® 4955 VP



# KRYNAC® 4955 VP

## ULTRA HIGH ACN NITRILE RUBBER

### WITH BEST FLOWABILITY

### FOR HEAVY DUTY OIL DRILLING OPERATIONS



#### Processing excellence

- excellent processability
- very high scorch safety
- very high flowability
- good adhesion to metal / textile

#### Properties advantages

- ultra high ACN level for excellent oil resistance
- very good fuel resistance
- excellent gas permeation resistance
- very high damping characteristics

#### Typical applications

- moldings for oil & gas applications
- fuel hoses and seals
- flexible fuel tank containers
- membranes
- shoe soles (wet grip)

#### Krynac® 4955 VP

Acrylonitrile content	49 w%
ML (1+4) at 100 °C	55 MU

## ARLANXEO

Performance Elastomers

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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.

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