



## Production

Keltan® 9565Q is produced in Orange, Texas, USA, using suspension polymerization and Ziegler Natta catalysis.

## Quality Improvement



ARLANXEO is continuously improving the quality of its plants and has recently invested significantly at the site in Orange, TX to upgrade and improve the plant, and the quality of its products. These improvements not only made it possible to develop new grades, like Keltan® 9565Q, but have also enhanced the product quality of the entire Orange product portfolio. As an example, we are currently implementing an improved catalyst activation technology at Orange, bringing its manufacturing operation in line with the technology already used at all of our other Keltan® EPDM production sites. The core Ziegler Natta catalyst system is not changed and remains intact.

In the case of Keltan® 9565Q, the improvement in catalyst activation means:

- The catalyst residues are lower than in the past, resulting in better baseline color and color stability.
- The homogeneity of the oil in the polymer is improved.
- The smell of this new product is very similar to that of Keltan® products from other production sites, which means a milder and sweeter odor than current Orange products.

## Unique Polymer Characteristics

Keltan® 9565Q provides significant benefits when compounding and in end-use applications. These include:

- Ultra-high molecular weight for maximum strength (> 20 MPa) and low permanent set.
- Minimum oil to allow highly resilient, but still processable, formulations.
- Tailored molecular structure for optimal network formation to minimize damping.

## Application

- Keltan® EPDM products are globally the choice of automotive component designers and are being used in numerous automotive applications. Keltan® 9565Q is primarily designed for automotive dynamic applications, such as mounts, bushings, and dampers.
- Keltan® 9565Q is used in industrial applications such as bull's eyes and low hardness seals.
- Keltan® 9565Q is also an excellent polymer for TPV production due to its high molecular weight and colorless oil for non-black parts.

## Typical Compound Formulation

Automotive, Black, Low Hardness (50 Shore A), Dynamic Mount, Sulphur Cured.

Ingredient	PHR	Mechanical Properties*	Unit	Typical
Keltan® 9565Q	150	<b>Value</b>		
Carbon black N-550	50	Hardness	[ShA]	48
Paraffinic oil	5	Tensile strength	[MPa]	25
ZMBI	1	Elongation at break	[%]	700
TMQ	0.75	Elongation at break	[%]	660
ZnO	5	after aging (100°C; 168 h)		
Stearic acid	1.5	Elongation at break	[%]	630
MBT-80	0.42	after aging (120°C; 168 h)		
TMTD	0.88	Compression set (100°C; 24 h)	[%]	20
S-80	0.64	Rebound Resilience	[%]	69
<b>Total</b>	<b>215.19</b>	Loss angle	[ ° ]	3,2

\*These items are provided as general information only. They are approximate values and are not considered part of the product specifications.

More Keltan® 9565Q based pilot formulations will be published at our customer information platform, Keltan® Connect (<https://access.keltan.com>).

## Product Information

- **Product Storage:** Information regarding the storage of Keltan® EP(D)M can be found in the 'Keltan® EP(D)M Handling & Storage Guidelines' at Keltan® Connect.
- **Product Safety:** Detailed product safety data can be found in the 'Keltan® EP(D)M Material Safety Data Sheet' at Keltan® Connect.
- **FDA and BfR Declarations:** can be requested at Keltan® Connect.
- **Keltan® Connect:** The electronic customer information platform for all Keltan® product information. Please contact your local representative for access to Keltan® Connect. (<http://connect.keltan.com>).

Keltan Elastomers - The Only True Global EPDM Supplier

Details



● BL Keltan: Production site      ● Regional sales offices and technical services

- EPDM plants in all strategic regions
- Regional Service:
  - 25 sales offices
  - Technical services
  - Application development
- Expansion in China
  - Largest world scale plant
  - Wholly owned by ARLANXEO

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We are happy to support your business. Please contact us for additional information: visit [www.Keltan.com](http://www.Keltan.com)



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. 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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