

# Efficient EPDM solutions for global markets

Keltan<sup>®</sup> KSA portfolio 2018

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# Keltan<sup>®</sup> KSA, made in the Kingdom of Saudi Arabia

ARLANXEO is a world-leading synthetic elastomers company established in April 2016 as a joint venture of Saudi Aramco and LANXESS. ARLANXEO and Saudi Aramco signed an agreement giving ARLANXEO exclusive rights to market and sell Saudi Aramco's share of EPDM produced in its Petro Rabigh joint venture plant. These EPDM elastomers join ARLANXEO's existing Keltan<sup>®</sup> brand family and carry the extension KSA indicating production in the Kingdom of Saudi Arabia.



**Efficient  
compounding**



**Easy  
processing**



**Optimal  
properties**



**Established  
products**

# Typical applications for Keltan<sup>®</sup> KSA are:

## Automotive

### Sealing systems

Sealing systems for sealing against water, wind, noise and dust. Efficient processing (for instance for fast continuous extrusion), optimal mechanical properties (for example for outstanding compression set) and high aesthetics are crucial for these demanding applications.

### Hoses

Hoses for transporting liquids (such as coolants) where high temperature resistance and resistance against chemicals are important requirements.

### V-Belts

Vibration belts (with textile reinforcement) due to ease of processing, broad temperature range, outstanding sealing capability and efficient compounding.

## Building & construction

### Window and building profiles

Window profiles due to outstanding sealing capabilities and strong resistance against environmental elements (water, UV light, ozone and temperature fluctuations).

### Insulation sponge

Insulation sponge for the building & construction industry for optimal sealing capabilities by using low density (low weight) sponge profiles.

## Industrial & consumer goods

### Industrial hoses

Industrial hoses due to the good processing supported by excellent physical properties.

### Molded goods

A broad range of products for various applications where fast production cycles and optimal mechanical properties are key requirements.



**All Keltan<sup>®</sup> KSA grades  
show outstanding  
weatherability and  
sealing capabilities**

# Keltan<sup>®</sup> KSA grades

## Keltan<sup>®</sup> KSA 3508L

Amorphous ethylene-propylene rubber with high ENB content and a low Mooney viscosity.

The low Mooney viscosity in combination with the broad molecular weight distribution ensures easy processing. The high ENB content enables fast vulcanization.

### Typical applications

High hardness profiles and general molded goods requiring good low temperature properties.

## Keltan<sup>®</sup> KSA 6405H

Crystalline ethylene-propylene rubber with medium ENB content and a medium Mooney viscosity.

The medium Mooney viscosity in combination with the medium MWD ensures fast extrusion. The higher ethylene content enables higher filling degrees and smooth profile surfaces.

### Typical applications

Continuous extrusion applications (like sealing systems, hoses and low voltage cable) and molded goods.

## Keltan<sup>®</sup> KSA 8105M

Semi-crystalline ethylene-propylene rubber with medium ENB content and a high Mooney viscosity.

The high Mooney viscosity enables high filler loading. Whereas the combination of medium MWD and medium ENB content ensures very good extrusion and fast vulcanization.

### Typical applications

Continuous extrusion applications like sealing systems and hoses where good low temperature properties should be met.

### Properties

ML (1+4) 100 C	ASTM D1646	MU
ML (1+4) 125 C	ASTM D1646	MU
Ethylene content (C2 + C3 = 100%)	ASTM D3900	wt. %
ENB content	ASTM D6047	wt. %
MWD	Internal	

<b>45</b>		
	<b>64</b>	<b>81</b>
<b>57</b>	<b>68</b>	<b>59</b>
<b>8.4</b>	<b>5.0</b>	<b>5.5</b>
<b>Broad</b>	<b>Medium</b>	<b>Medium</b>

### Packaging

Bale
Wrapping film
Box
Stock Keeping Unit

<b>Standard bales 25 kg</b>
<b>Transparent 50 microns LDPE wrapping film</b>
<b>One way metal box</b>
<b>36 bales (net box weight = 900 kg)</b>



# Keltan<sup>®</sup> KSA nomenclature

## First & second digit

### Mooney viscosity in MU

measured at 125°C

46 = ML(1+4) 125°C

55 = ML(1+4) 125°C

80 = ML(1+4) 125°C

etc.

## Third digit

### Oil content in phr.

0 = 0 phr.

1 = 10-19 phr.

2 = 20-29 phr.

3 = 30-39 phr.

etc.

Keltan<sup>®</sup> KSA 6405H

## Fourth digit

### ENB content in wt. %

0 = 0.0-0.9 wt. %

1 = 1.0-1.9 wt. %

2 = 2.0-2.9 wt. %

3 = 3.0-3.9 wt. %

etc.

## Suffix

### Ethylene content

L = low ethylene content  
(amorphous)

M = medium ethylene content  
(semi-crystalline)

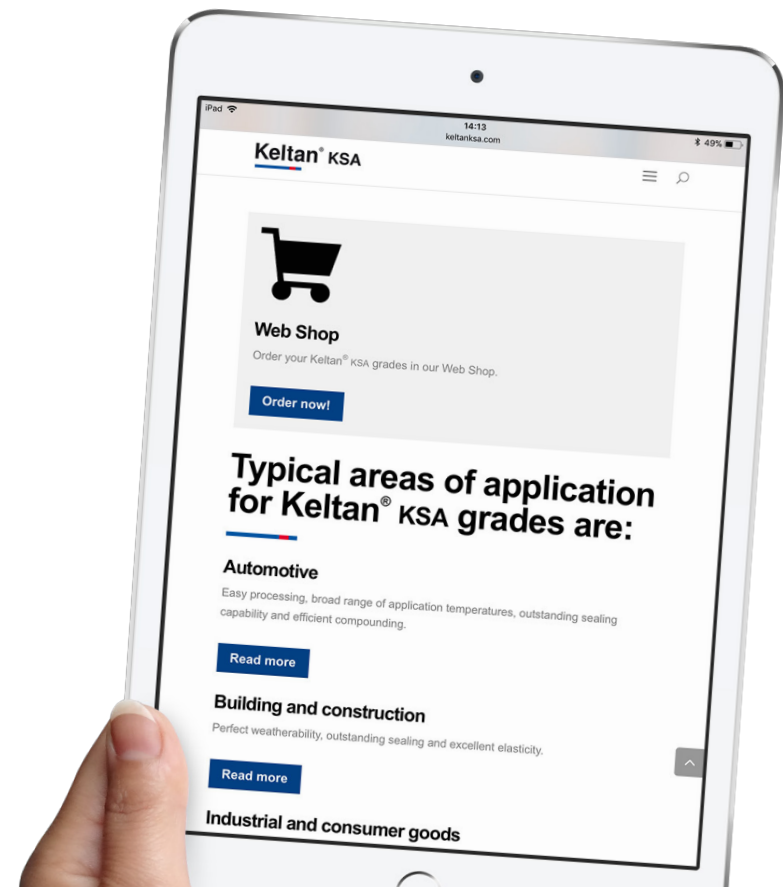
H = high ethylene content  
(crystalline)

# Customer Self - Service

We firmly believe in giving our customers full control and on-demand visibility of necessary information, at your convenience. Our Customer Self-Service Portal is accessible 24-hours a day, 7-days a week and promises to supply you with relevant information pertaining to our Products or your Order in an extremely intuitive interface in a secure environment.

Here you will find product information such as Product Data Sheets, General Sales Specifications, Safety Data Sheets and detailed Product Packaging information. You will also be able to place an inquiry for a Product or REACH declaration and to request for a Keltan<sup>®</sup> KSA sample.

To gain access to our Customer Self-Service Portal, please register at [www.keltanksa.com](http://www.keltanksa.com)





# Your direct contact for further information

Please direct any questions on Keltan® KSA to one of the following addresses or visit: [www.keltanksa.com](http://www.keltanksa.com)

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## **Disclaimer**

### **Product Safety**

Relevant safety data and references as well as the possibly necessary warning labels are to be found in the corresponding safety data sheets.

### **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 Keltan KSA representative.

### **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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# Keltan® KSA

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