

KELTAN® 5260Q

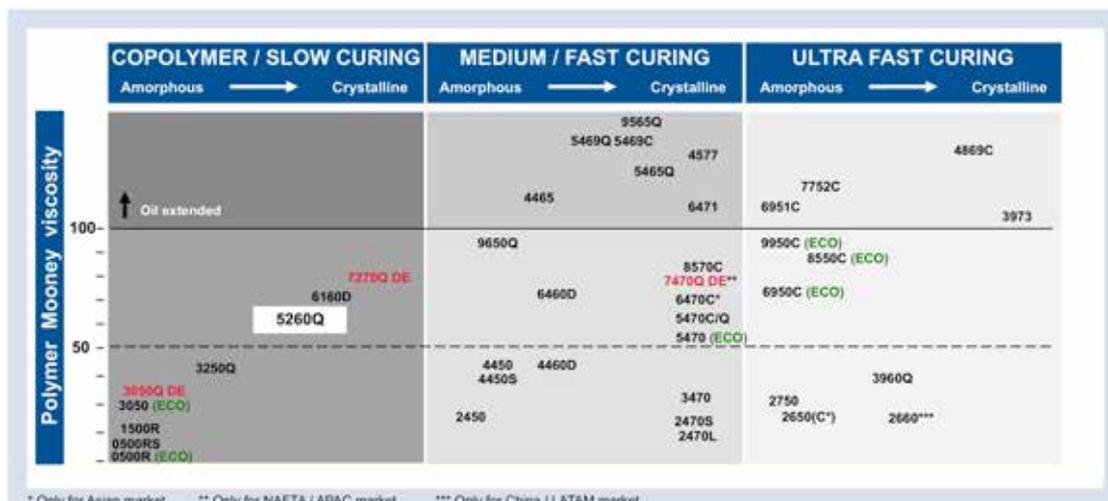
Keltan® 5260Q is a semi crystalline ethylene-propylene rubber with a medium Mooney viscosity. The low level of unsaturation with ENB (ethylene-norbornene), results in excellent heat ageing performance,

especially with peroxide cured compounds. The polymer structure ensures a good balance between processing, physical properties and low temperature performance.

Property*	Typical Values	Units	Test Method
Mooney viscosity, ML (1+4) 125°C	55	MU	ASTM D1646
Ethylene content	62.0	wt. %	ASTM D3900A
ENB content	2.3	wt. %	ASTM D6047

Product Portfolio

The product overview below shows the position of **Keltan® 5260Q** in relation to the other products in the Keltan® EPDM product portfolio.



Production

Keltan® 5260Q 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. ARLANXEO intends to implement process improvements for Keltan® 5260Q in the Orange plant, and to enhance 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. Most importantly, the product has the same processing and compounding properties that it has had in the past.

In the case of Keltan® 5260Q, the improvement in catalyst activation means:

- The catalyst residues are lower than in the past, resulting in better baseline color and color stability.
- The smell of the product has changed slightly. The new smell is very similar to that of Keltan® products from other production sites, which means a milder and sweeter odor than current Orange products.
- No change at all in performance characteristics or specifications.

Unique Polymer Characteristics

Keltan® 5260Q provides significant benefits when compounding and in end-use applications. These include:

- Excellent heat aging properties due to the low unsaturation.
- Very good processing properties due to medium Mooney viscosity.
- Good low temperature properties due to low-medium ethylene level.
- Perfect blend partner with butyl rubber to improve heat and ozone resistance and optimize the processability of butyl rubber compounds.

Application

- Keltan® EPDM products are globally the choice of designers and are being used in numerous building and construction systems. Keltan® 5260Q is being used in applications such as roofing and sealing systems.
- Due to the good balance between processability, physical properties and high & low temperature performance, Keltan® 5260Q is being used in automotive applications such as belts and coolant hoses.
- One of the main application areas for Keltan® 5260Q is tire & tubes, especially in inner tube & solid tires.

Typical Compound Formulation

Belts, High Heat Resistance, Medium Hardness (50-75 Shore A), Peroxide Cured

Ingredient	PHR	Mechanical Properties*	Unit	Typical Value
Keltan® 5260Q	100 TRIM 1,4	Hardness	[ShA]	57
Carbon black N-550	40 peroxide 14-40 MB 7,5	Tensile strength	[MPa]	17
Precipitated silica/silane	15	Elongation at break	[%]	629
Paraffinic oil (low volatile)	30	Rebound Resilience at 23°C	[%]	53
TMQ	1,5 Total 204,4	Tear Strength Delft	[N/mm]	43
ZMBBI	2	Compression Set (24h/23°C)	[%]	13
CDPA	1	Compression Set (72h/175°C)	[%]	49
MgO	5	Tensile strength after aging (168h/150°C)	[MPa]	16
Stearic acid	1			

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

More Keltan® 5260Q based pilot formulations will be published at our customer information platform, Keltan® Connect (<http://connect.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

Contact

■ EMEA

E-mail: john.beelen@arlanxeo.com
Phone: +31 46 7020 871

■ CHINA

E-mail: baojia.cheng@arlanxeo.com
Phone: +86 21 6109 8216

■ APAC

E-mail: wengfook.chee@arlanxeo.com
Phone: +65 6725 5778

■ NAFTA

E-mail: pete.spanos@arlanxeo.com
Phone: +1 440 678 8768

■ LATAM

E-mail : leandro.alves@arlanxeo.com
Phone : + 55 11 3741 7928

■ Internet

www.keltan.com

We are happy to support your business. Please contact us for additional information: visit 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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