

ARLANXEO introduces new Keltan Eco based TPVs cradle-to-cradle applications

- **ARLANXEO has formulated TPVs using sustainable ingredients**
- **Based on Keltan Eco – the world’s first bio-based EPDM rubber**
- **Offers opportunity for potential partnerships**

July 03, 2018

Geleen / Nuremberg - ARLANXEO, a global leader in performance elastomers, introduces its new thermoplastic vulcanisates (TPVs) that combine Keltan Eco ethylene propylene diene monomer rubber (EPDM) with green fillers, plasticizers and thermoplastics, resulting in EPDM products with up to 90% sustainable ingredients.

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Keltan Eco is the world’s first EPDM rubber manufactured using bio-based ethylene extracted from sugarcane. Depending on the ethylene content of each rubber grade, the proportion of bio-based material ranges between 50% and 70%.

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TPVs using Keltan Eco EPDM

After evaluating the potential of creating sustainable alternatives for traditional polyolefin thermoplastics, plasticizer oils and (reinforcing) fillers, ARLANXEO now developed thermoset rubber compounds and thermoplastic vulcanisates based on Keltan Eco EPDM with the specific aim of maximizing sustainable content without compromising technical performance.

By combining Keltan Eco EPDM with green compounding ingredients the new EPDM compounds can also be used for dynamic and static automotive sealing applications with 85 to 90 weight percent of its composition having sustainable origin and a technical performance comparable to standard EPDM compounds.



Niels van der Aar, Business Development Manager EPDM/NBR at ARLANXEO said: “We can now identify potential partners to (co-)develop these innovative bio-TPVs. TPVs using Keltan Eco EPDM offer an excellent opportunity to replace regular thermoset rubber compounds and thermoplastic vulcanisates. These bio-based TPVs can make a significant contribution to the circular economy, scoring well in a cradle-to-cradle approach and helping to lower the carbon footprint.”

Keltan Eco EPDM

Studies have shown that both the characteristics and technical performance of these Keltan Eco EPDM grades are identical to those of conventional EPDMs produced via Ziegler Natta catalysis and/or those from monomers based on crude oil.

Today, these new bio-based EPDM grades are commercially tested and used in applications, such as window profiles for busses and buildings, automotive extrusion profiles, O-rings, TPV over-moldings for automotive interior, pharma applications, sport surfaces, and, most recently, in the sponge rubber layer directly underneath the outer cover of the official soccer ball of the Soccer World Cup 2018.

About ARLANXEO

ARLANXEO is a world-leading synthetic rubber company with sales of around EUR 3.2 billion in 2017, about 3,800 employees and a presence at 20 production sites in nine countries. The company’s core business is the development, manufacturing and marketing of high-performance rubber for use in, for example, the automotive and tire industries, the construction industry, and the oil and gas industries. ARLANXEO was established in April 2016 as a joint venture of LANXESS and Saudi Aramco.

Forward-Looking Statements

This news release may contain forward-looking statements based on current assumptions and forecasts made by ARLANXEO management. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.

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(Photo ARLANXEO, ARPR041)

Information for editors

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Alternatively for very high resolution pictures please contact Rita Verschuuren
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