

**KRAIBURG TPE AND SHELL:
INNOVATION WITH
GAS-TO-LIQUIDS TECHNOLOGY**



In a first for the thermoplastic elastomers (TPE) sector, KRAIBURG TPE brings innovation to its customers using new Shell's next generation process oil, Shell Risella X, based on gas-to-liquids (GTL) technology.

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KRAIBURG TPE, a global leading producer of thermoplastic elastomers, is preparing for commercial production using Shell Risella X, a premium process oil derived from Shell's Gas to Liquids (GTL) technology.

Oliver Zintner, Director Europe KRAIBURG TPE, said:
"It is an on-going challenge for companies to improve the efficiency of their operations and continue to improve product quality. For us, part of the work to meet this challenge is being done via a new TPE product, developed in close cooperation with Shell, modified with a completely new raw material. The new raw material is the cutting edge synthetic process oil: Shell Risella X."

This new ingredient allows KRAIBURG TPE to develop pioneering, high-quality TPE-solutions for its customers. First tests showed improved compatibility in the TPE matrix due to the chemical structure of the oil. Shell and KRAIBURG TPE's R&D departments are exploring the applications of this innovative product in the market.

As the basic building block for Risella X is natural gas rather than crude oil, Shell Risella X has a different



chemical structure to conventional mineral-oil based process oils and can provide valuable benefits to customers' products and operations.

Looking to the future, KRAIBURG TPE intends to work together with its customers to test and analyse key features and further benefits of new TPE produced using Shell Risella X.

GTL is the product of almost 40 years of research and technology driven by Shell. The technology enables large scale production of base oils for the manufacture of premium finished lubricants and process oils from clean-burning natural gas. The basic technology behind the GTL process, known as Fischer-Tropsch, was developed by German scientists in the 1920s and refined by Shell's proprietary technology.

This technology has been brought to life in the GTL Pearl plant, a joint development between Qatar Petroleum and Shell, which has a capacity of 260,000 barrels oil equivalent a day. The plant in Qatar is the world's largest source of GTL products, including low emission transport fuels, valuable chemical feedstocks and premium base oils.



NOTES TO EDITORS

About KRAIBURG TPE

KRAIBURG TPE (www.kraiburg-tpe.com) manufactures thermoplastic elastomers based on HSBC (hydrogenated styrene block copolymers) and markets them all around the world. In addition to custom solutions, under the THERMOLAST® brand the company offers a broad spectrum of standardized compounds covering a wide range of applications. With its high-performance HIPEX® compound, KRAIBURG TPE is opening up the world of rubber for all thermoplastics processing companies and with the new compounds COPEC® and For-Tec E it is entering new dimensions in terms of haptics, adhesion and resistance for consumer electronics products. Kraiburg TPE has production sites in Germany, USA and Malaysia. The sales organization covers France, Italy, Spain, China, India, Taiwan, Mexico and Brazil. In further countries KRAIBURG TPE is represented by a distributor.

About Shell Process Oils

Process oils are special oils which are used in a wide variety of chemical and technical industries either as raw material component or as an aid to processing. Shell with more than 25 years experience in the process business is one of the leading process oil manufacturers and recognises the crucial role that process oils play in its customers' products and operations. Shell can provide a full range of process oils and is constantly investing to develop better products to further support its customers' businesses. With Shell Risella X®, Shell has developed of a new range of products based on the GTL technology, characterized by extra purity and excellent performance. Shell Risella X® is available in major markets, in particular Europe, North America, China and India.

Please direct your questions to:

KRAIBURG TPE GmbH & Co. KG
Lars Goldmann
Tel.: +49 8638 9810-278
Email: lars.goldmann@kraiburg-tpe.com
www.kraiburg-tpe.com

Shell

Francesca Braghette
Tel. : +393481515755
Email: francesca.braghette@shell.com
www.shell.com/processoils

