

Low extractable fuel line

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The multilayer tubing 4800 supplements the proven 4000 series through a system with a low extractable inner layer.

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With the multilayer tubing system (MLT) 4800, the world's leading provider of polyamide 12 for multilayer plastic tubing systems, Evonik Industries, Essen, responds to new requirements in the automotive industry – low extractable fuel line systems. The new MLT 4800 system with an inner layer of low extractable VESTAMID® polyamide 612 offers significantly reduced levels of extractable substances.

Alcohol containing fuels and lower fuel consumption

The use of fuels that contain alcohol, for example biofuels containing ethanol, can lead to the extraction of substances from the inner walls of conventional gasoline lines. Under certain extreme conditions these substances can clog the nozzles in new, sensitive fuel systems, which use small-diameter nozzles to create an atomized spray of gasoline and air for fuel injection in order to decrease fuel consumption. To reliably counteract this, the automotive industry is looking for new fuel line materials with significantly reduced extraction.

Existing series expanded

For many years, Evonik has been offering its MLT 7440, a conductive system that fully meets the requirements. The new MLT 4800 now supplements it with a non-conductive system. It is based on the MLT 4300, with an outer layer of VESTAMID® polyamide 12 and a barrier layer of ethylene vinyl alcohol (EVOH) to prevent fuel permeation. In the MLT 4800, however, the PA6 inner layer of the proven system 4300 is replaced by a newly developed, low extractable VESTAMID® polyamide 612, which meets the requirements of automobile manufacturers. The mechanical characteristics, chemical resistance, and permeation behavior are on the same level as the MLT 4300, which is the currently most used MLT in Europe.

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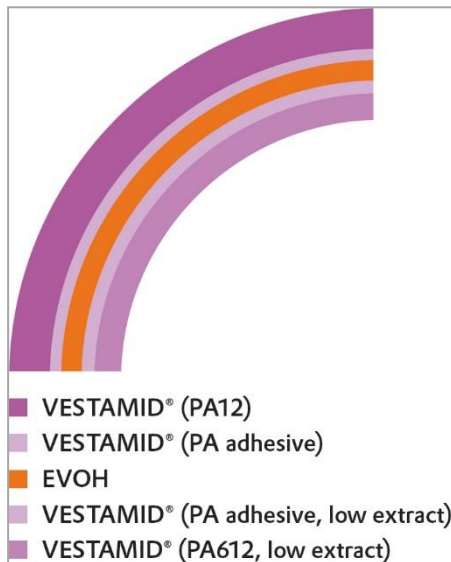
VESTAMID® has been in use by prestigious automobile manufacturers for more than 50 years. In addition to molding compounds for monowall applications, Evonik has also developed various multilayer tubing systems with different barrier layers. VESTAMID® polyamide 12 and polyamide 612 are the world's most widely used polyamides for tubing systems in automobiles.

Additional information at www.vestamid.com

Visit us during the K'2016 in Dusseldorf in Hall 6, Stand B28, and learn more about the low extractable fuel line.



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Layer design of the MLT 4800

About Evonik Resource Efficiency

The Resource Efficiency segment is led by Evonik Resource Efficiency GmbH and supplies high performance materials for environmentally friendly as well as energy-efficient systems to the automotive, paints & coatings, adhesives, construction, and many other industries. This segment employed about 8,600 employees, and generated sales of around €4.3 billion in 2015.

About Evonik

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Profitable growth and a sustained increase in the value of the company form the heart of Evonik's corporate strategy. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Evonik benefits specifically from its innovative prowess and integrated technology platforms.

Evonik is active in over 100 countries around the world. In fiscal 2015 more than 33,500 employees generated sales of around €13.5 billion and an operating profit (adjusted EBITDA) of about €2.47 billion.

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