

Polyphthalamide VESTAMID® HTplus shows exceptional dielectric strength

VESTAMID® HTplus M1933, manufactured by Resource Efficiency segment of Evonik, Essen, scored excellent results in tests of its Relative Temperature Index (RTI). The results confirmed that components made of this polyphthalamide (PPA), which is reinforced with 30% fiberglass, can be expected to show constant electrical properties and consistently high dielectric strength at high ambient temperatures in long-term operation (20,000 hours).

Given the growing number of requirements such as weight savings, miniaturization and higher performance in smaller and more compact assemblies, component developers quickly reach feasibility limits with existing plastic solutions. VESTAMID® HTplus M1933, which is designed for a wide range of markets and applications, offers precisely these properties and meets the applicable fire safety requirements. According to tests performed by Underwriters Laboratories (UL), the high-temperature polymer VESTAMID® HTplus M1933 reaches the flammability rating V0 for all colors from a wall thickness of 0.4 mm.

"Our material's electrical RTI is clearly superior to the other commercially available materials starting from a wall thickness of 0.4 mm," commented Global Business Director Dr. Simon Ting on the test results. "VESTAMID® HTplus M1933 also scored equal or better than competitor materials in all other tested parameters." The property profile includes excellent flow characteristics and outstanding surface qualities in components made from the PPA. Developers of plastic components, for example in the electrical industry, can therefore make even better use of the very high VESTAMID® HTplus long-term service temperature than before.

Discover more about the high performance polymers from Evonik at our stand 4117 in Hall 4 at FAKUMA in Friedrichshafen, Germany, from October 13 to 17.

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Specialized Press Contact

Dr. Ursula Keil

High Performance Polymers

Phone +49 2365 49-9878

Fax +49 2365 49-809878

ursula.keil@evonik.com

Evonik Resource Efficiency GmbH

Rellinghauser Straße 1-11

45128 Essen

Germany

Phone +49 201 177-01

Fax +49 201 177-3475

www.evonik.com

www.vestamid.com

Chairman of the Supervisory Board

Dr. Ralph Sven Kaufmann

Board of Management

Dr. Claus Rettig, Chairman

Dr. Johannes Ohmer, Simone

Hildmann, Alexandra Schwarz

Registered Office: Essen

Registered Court: Essen Local Court

Commercial Registry B 25783

VAT ID no. DE 815528487

About Resource Efficiency

The Resource Efficiency segment is led by Evonik Resource Efficiency GmbH and brings together Evonik's activities in specialty chemicals for industrial applications. The Resource Efficiency segment 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 7,800 employees, and generated sales of around €4 billion in 2014.

About Evonik

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals, operating in the Nutrition & Care, Resource Efficiency and Performance Materials segments. The company benefits from its innovative prowess and integrated technology platforms. In 2014 more than 33,000 employees generated sales of around €12.9 billion and an operating profit (adjusted EBITDA) of about €1.9 billion.

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Evonik Resource Efficiency GmbH
Rellinghauser Straße 1-11
45128 Essen
Germany
Phone +49 201 177-01
Fax +49 201 177-3475
www.evonik.com
www.vestamid.com

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