

Syensqo announces strategic partnership with Politubes to advance electric motor efficiency

Ajedium™ PEEK EVTubes slot liners boost cost effectiveness through improved processability and fill factor

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Syensqo, a leader in specialty polymers, and [Politubes](#), a renowned manufacturer of flexible multi-layered spiral-wound tubes and insulator caps components, have announced a strategic partnership to develop slot liner spiral-wound tubes using [Ajedium™](#) polyetheretherketone (PEEK) and polyphenylsulfone (PPSU) film.

These spiral-wound slot liner tubes leverage the high-performance properties of [Ajedium™ PEEK films](#), providing superior insulation for electric motors. The unique product design enhances e-motor efficiency by up to 2%, enabling a more effective copper fill factor and improved heat dissipation. This allows manufacturers to benefit from lightweighting and reduced total costs, while gaining higher efficiency and increased packaging space within vehicles.

"Over the past years, we've seen increasing demand from automotive original equipment manufacturers for EVTubes made with PEEK or PPSU," said Federico Penzo, CEO of Politubes. "We are thrilled to partner with Syensqo, a trusted partner in advanced materials, to meet these customer requests and deliver high-quality solutions."

[Ajedium™ PEEK](#) slot liner spiral-wound tubes address the growing demand for highly efficient, sustainable and innovative solutions within the electric motor market.

"The automotive industry is undergoing a transformative shift towards battery electric vehicles, necessitating innovative materials that can handle higher voltages and perform better," stated Brian Baleno, Director of Global Business Development & Program Management at Syensqo. "We are thrilled to partner with Politubes to expand our [Ajedium™ PEEK](#) and PPSU slot liner offerings. This collaboration allows for greater e-motor design freedom, meeting the needs of automotive tier 1 manufacturers and OEMs."

Ajedium™ is a trademark of Syensqo.



Ajedium™ PEEK spiral-wound slot liner EVTubes

About Syensqo

Syensqo is a science company developing groundbreaking solutions that enhance the way we live, work, travel and play. Inspired by the scientific councils which Ernest Solvay initiated in 1911, we bring great minds together to push the limits of science and innovation for the benefit of our customers, with a diverse, global team of more than 13,000 associates in 30 countries.

Our solutions contribute to safer, cleaner, and more sustainable products found in homes, food and consumer goods, planes, cars, batteries, smart devices and healthcare applications. Our innovation power enables us to deliver on the ambition of a circular economy and explore breakthrough technologies that advance humanity.

Learn more at www.syensqo.com.

About Politubes

Politubes is an IATF-certified converting manufacturer, specializing for decades in the production of spiral wound tubes engineered for electrical insulation. EVTubes represent a highly validated and innovative concept for stator slot liner insulation, specifically designed for e-motors utilizing copper hairpin, I-Pin, and wave windings. These spiral wound tubes are produced with the most trusted insulation materials available. They are hermetically sealed and designed with a lower thickness than insulating tape, thanks to the absence of overlap in the closing area.

Visit www.politubes.com

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