

## **Solvay's Udel® P-1700 PSU enables PendoTECH to develop sensors for single-use biopharmaceutical continuous processing applications**

**Alpharetta, Ga., Oct. 13, 2017** --- Solvay, a leading global supplier of specialty polymers, has announced that its high-performance Udel® P-1700 polysulfone (PSU) polymer enabled PendoTECH to innovate biocompatible, transparent housings for a family of sensors targeting single-use biopharmaceutical development and manufacturing applications. A leader in sensors, monitors, and control systems for the industry, PendoTECH developed its single-use products for discrete, inline measurement of pressure, temperature, conductivity, ultraviolet absorbance and turbidity during biopharmaceutical development and production.

*"Biopharmaceutical manufacturers are increasingly drawn to the greater flexibility and faster time to market made possible through single-use technologies and systems," said Dennis Annarelli, PhD, technical and quality manager at PendoTECH. "But the shift toward single-use systems requires higher performing polymers, like those from Solvay that offer viable alternatives to traditional re-usable metal parts. The unique performance profile of Udel® P-1700 PSU made it an ideal fit for our sensor housings, and offers an excellent illustration of how advanced polymers are driving change in today's biopharmaceutical industry."*

Udel® P-1700 PSU is certified under United States Pharmacopeia (USP) Class VI test standards – both before and after gamma irradiation – helping to ensure that the molded housings used in PendoTECH's sensors meet the industry's stringent requirements for biocompatibility. Solvay's PSU has also been tested under ISO 10993 biocompatibility standards for cytotoxicity, irritation and acute systemic toxicity.

Moldable and transparent, Udel® P-1700 PSU allows PendoTECH's sensor housings to provide improved ease of use versus stainless steel housings. It delivers excellent thermal and chemical resistance, as well as exceptional dimensional and hydrolytic stability. Unlike lower performing transparent polymers, PSU is compatible with both steam autoclave and gamma irradiation sterilization. Further, Solvay supports its PSU with product traceability and offers global technical and regulatory support.

*"Due to the success and performance of our sensor products, PendoTECH intends to continue using Udel® PSU polymer in a range of new sensors and other products under development," Annarelli said.*

A leading supplier of specialty polymers, Solvay brings over 25 years of healthcare industry experience, reliability and innovation to the biopharmaceutical industry. In addition to Udel® PSU, the company offers a broad selection of high-performance polymers ideally suited for single-use peripherals, filtration, bioreactors and containment.

® Udel is a registered trademark of Solvay

**PendoTECH**

With extensive experience in the biopharmaceutical industry — and particular expertise in single-use bio-pharmaceutical equipment — PendoTECH delivers a line of sensors, control systems and software for measuring, monitoring and data collection in bioprocess applications and other areas where the products provide a unique process solution. Learn more at [www.pendotech.com](http://www.pendotech.com).

**Solvay**

Solvay is a multi-specialty chemical company, committed to developing chemistry that addresses key societal challenges. Solvay innovates and partners with customers in diverse global end markets. Its products and solutions are used in planes, cars, smart and medical devices, batteries, in mineral and oil extraction, among many other applications promoting sustainability. Its light weighting materials enhance cleaner mobility, its formulations optimize the use of resources and its performance chemicals improve air and water quality. Solvay is headquartered in Brussels with around 27,000 employees in 58 countries. Net sales were € 10.9 billion in 2016, with 90% from activities where Solvay ranks among the world's top 3 leaders. Solvay SA ([SOLB.BE](http://SOLB.BE)) is listed on Euronext Brussels and Paris (Bloomberg: [SOLB.BB](http://SOLB.BB) - Reuters: [SOLB.BR](http://SOLB.BR)) and in the United States its shares (SOLVY) are traded through a level-1 ADR program.

**Solvay Specialty Polymers**

Solvay Specialty Polymers manufactures over 1500 products across 35 brands of high-performance polymers – fluoropolymers, fluoroelastomers, fluorinated fluids, semi-aromatic polyamides, sulfone polymers, ultra-high performance aromatic polymers, and high-barrier polymers – for use in Aerospace, Alternative Energy, Automotive, Healthcare, Membranes, Oil and Gas, Packaging, Plumbing, Semiconductors, Wire & Cable, and other industries. Learn more at [www.solvayspecialtypolymers.com](http://www.solvayspecialtypolymers.com).

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Solvay's Udel® P-1700 polysulfone (PSU) polymer helped PendoTECH to innovate biocompatible, transparent housings for a family of single-use sensors targeting biopharmaceutical manufacturing applications. Udel® P-1700 PSU is certified under USP Class VI test standards – both before and after gamma irradiation – helping to ensure that the molded housings used in PendoTECH's sensors meet the industry's stringent requirements for biocompatibility. Solvay's PSU has also been tested under ISO 10993 biocompatibility standards for cytotoxicity, irritation and acute systemic toxicity. Photo courtesy of PendoTECH.