



Progress beyond

Ensinger relies on Solvay's high-performance polymer expertise in the fight against Covid-19

To boost vaccine production, Solvay, Ensinger and optek are safeguarding the value-added chain with precision components.

Brussels, July 28th, 2021. Ensinger has chosen [Radel® PPSU](#) as the high-performance polymer for the production of sensor bodies thanks to its high mechanical, chemical and thermal stability. It can absorb massive impact without cracking or breaking, even after prolonged and repeated exposure to high temperatures, chemical disinfectants, hot water and steam. Radel® PPSU resins are also compatible with all commercial sterilization methods.

"Producing the sensor bodies from medical-grade plastic, glass and metal requires highly precise manufacturing technology. We have all of this expertise and all of these resources in-house", says Dr. Roland Reber, Managing Director at Ensinger. "But we are dependent on good suppliers like Solvay. We have been fully supported with detailed technical expertise and provided with specific solutions regarding regulatory compliance throughout the whole process".

More than 180 million people have become infected with Covid-19, which has already mutated multiple times. Effective vaccines have been developed in record time, but billions of vaccine doses are needed to defeat the pandemic. In order to expand production, sensor components are urgently required. Sensor bodies – like those produced for optek by Ensinger – enable quality control in the biopharmaceutical process.

"Our value-added services enhance our high-performance polymers and support biopharma processing trends. Radel® PPSU demonstrates how critically important material technologies are to this fast-changing and demanding sector. We take a highly proactive approach to material testing to support regulatory compliance needs" said Jesal Chopra Vice President - Healthcare, Environment, Consumer, & Construction, Materials Segment at Solvay.

"The component with the measuring interfaces to the medium is complex and difficult to clean. Instead of flow-through assemblies of stainless steel, increased use is therefore being made of what are known as Single Use Cells (S.U.C.), which are disposed of after use. They minimise contamination risks, downtimes and costs associated with chemical cleaning, sterilisation and validation of the plants" explains Jürgen Danulat, Managing Director of optek.



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Solvay offers a broad selection of high-purity, specialty polymers for pharmaceutical and bioprocessing technologies. Products include [Udel® PSU](#), [Veradel® HC polyethersulfone \(PESU\)](#), [Radel® polyphenylsulfone \(PPSU\)](#), [Ixef® polyarylamide \(PARA\)](#), [KetaSpire® polyetheretherketone \(PEEK\)](#) and [AvaSpire® polyaryletherketone \(PAEK\)](#) resins. These materials can be used in a range of applications in sectors such as filtration media and housings, instrumentation as well as components of fluid management storage systems.

About Solvay

Solvay is a science company whose technologies bring benefits to many aspects of daily life. With more than 23,000 employees in 64 countries, Solvay bonds people, ideas and elements to reinvent progress. The Group seeks to create sustainable shared value for all, notably through its Solvay One Planet plan crafted around three pillars: protecting the climate, preserving resources and fostering better life. The Group's innovative solutions contribute to safer, cleaner, and more sustainable products found in homes, food and consumer goods, planes, cars, batteries, smart devices, health care applications, water and air purification systems. Founded in 1863, Solvay today ranks among the world's top three companies for the vast majority of its activities and delivered net sales of €9 billion in 2020. Solvay is listed on Euronext Brussels (SOLB) and Paris and in the United States, where its shares (SOLVY) are traded through a Level I ADR program. Learn more at www.solvay.com.

About Ensinger

The Ensinger Group is engaged in the development, manufacture and sale of compounds, semi-finished materials, composites, technical parts and profiles made of engineering and high-performance plastics. To process the thermoplastic polymers, Ensinger uses a wide range of production techniques, such as extrusion, machining, injection moulding, casting, sintering and pressing. With a total of 2,700 employees at 35 locations, the family-owned enterprise is represented worldwide in all major industrial regions with manufacturing facilities or sales offices. www.ensingerplastics.com

About optek

optek develops, manufactures and distributes solutions for inline process monitoring. Photometric and electrochemical sensors are used to precisely measure relevant parameters, such as the pH, temperature, conductivity, color, turbidity or UV absorption of a liquid. From a single source, optek also supplies system components such as analyzers, converters, accessories and measuring cells for integrating the sensor technology into production. This includes Single Use Cells (S.U.C.), e.g. for biopharmaceutical production. optek-Danulat GmbH, headquartered in Essen, Germany, with locations in the U.S., Singapore and China, has completed more than 30,000 installations worldwide since its founding in 1984. www.optek.com



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