

Advanced Sensor Technologies chooses Solvay's Ryton® PPS for chemical- and heat-resistant sensor housings used in demanding industrial processing

Alpharetta, Ga., February 6, 2018 --- Solvay, a leading global supplier of high-performance polymers, announced today that Advanced Sensor Technologies Inc. (ASTi) selected Ryton® polyphenylene sulfide (PPS) to mold protective housings for two industrial-grade sensors. The sensors, designed to evaluate either pH or oxidation-reduction potential (ORP) in industrial processes, are encased in housings molded from Ryton® R-4-230BL, an advanced 40-percent fiberglass-reinforced PPS compound that combines improved processability, excellent rigidity and strong resistance to chemicals even at high temperatures.

ASTi, a designer of electrochemical sensors for laboratory, medical and industrial applications, chose to encase its solid-state pH and ORP sensors within housings molded from Ryton® R-4-230BL to protect them from the harsh environments of inline process control and monitoring applications. The particular grade of Ryton® PPS that ASTi chose offered optimal balance of superb processability, strong resistance to a wide variety of corrosive chemicals and excellent dimensional stability to allow molding of complex components with very tight tolerances.

Ryton® PPS reliably retains its chemical resistance and rigidity even after prolonged exposure to temperatures up to 200°C (392°F) and, depending on the application, can maintain its properties for short periods at temperatures reaching 260°C (500°F).

"ASTi has increasingly relied on Solvay's broad selection of advanced polymers to develop products for medical, biopharma and industrial applications, but we found Ryton® PPS's unique property profile best suited the environment in which our new pH and ORP sensors would operate," said Martin Patko, president and founder at ASTi. *"Ryton® PPS promises to optimize the performance and lifetime of these sensors as well as future applications that require a combination of chemical resistance, thermal stability, electrical properties, and rigidity."*

® Ryton is a registered trademark of Solvay

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Advanced Sensor Technologies Inc.

Advanced Sensor Technologies, Inc. (ASTi) designs and manufactures highly durable and extremely reliable industrial pH sensors, ORP sensors, ion selective sensors and conductivity sensors for demanding inline process control measurement and monitoring applications. Our portfolio also includes research-grade pH electrodes, ORP electrodes, ion selective electrodes and conductivity electrodes for laboratory testing. And we offer industry-leading product development and research services for OEM manufacturers and resellers who require pH, ORP and ion selective measurements for medical in-vitro and in-vivo applications, as well as industrial inline, immersion and submersible measurement.

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](#)) is listed on Euronext Brussels and Paris (Bloomberg: [SOLB.BB](#) - Reuters: [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.

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Advanced Sensor Technologies Inc. (ASTi) selected Solvay's Ryton® polyphenylene sulfide (PPS) polymer to mold housings for two high-performance, industrial-grade sensors designed to evaluate either pH or oxidation-reduction potential (ORP) in industrial processes. Specifically, ASTi chose Ryton® R-4-230BL, an advanced 40-percent fiberglass-reinforced PPS compound that combines improved processability, excellent rigidity and strong resistance to chemicals even at high temperatures. Photo courtesy of Solvay.