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For Immediate Release

Novel Dental Device Made of Solvay's Udel[®] Polysulfone is Cost-Effective Remedy for Teeth Grinding

New GrindGuard^N Mouth Guard Uses High-Performance Plastic for High Strength, Heat Resistance, and Biocompatibility

ALPHARETTA, Ga., November 15, 2010 – Grind Guard Technologies, LLC, Clarkston, Mich., has introduced a unique dental device designed for the treatment of bruxism – the tendency to clench and grind teeth while sleeping. The mouth guard is made of Udel[®] P-1700 polysulfone (PSU) resin from Solvay Advanced Polymers, LLC, for high strength, heat resistance, and biocompatibility.

GrindGuard^N is a cost-effective dental solution that offers greater comfort and better overall effectiveness than more expensive over-the-counter devices and prescription options from dentists, according to its inventor, Dr. Joe Pelerin, a Michigan-based dentist for over 35 years.

The mouth guard has a transparent injection molded outer shell made from Udel PSU resin. The 0.2-mm-thick shell features a novel 3-mm-high central power bar located at the midline of the mouth guard that focuses pressure on the upper and lower teeth and releases the stimulus for clenching. Central bite force concentration on the front teeth has been shown to create a nerve reflex which can reduce biting intensity by up to 60%. In a secondary operation, the Udel PSU outer shell is insert molded with a polycaprolactone

thermoplastic, creating a perfectly mated assembly.

The polycaprolactone softens when the GrindGuard^N is placed in hot water which has been heated for two minutes in a microwave. The polycaprolactone softens at 130°F and permits a precise fit to the teeth. Udel PSU easily withstands the hot water and does not deform or melt due to its high heat distortion temperature (HDT) of 174°F.

The new GrindGuard^N, manufactured by injection molder Maple Valley Plastics, Brown City, Mich., has received clearance from the U.S. Food & Drug Administration (FDA) and is available for \$50 with an online prescription at www.grindguardn.com to qualified individuals.

About Grind Guard Technologies

Grind Guard Technologies, LLC, Clarkston, Mich., was founded by Dr. Joe Pelerin, a Michigan-based dentist, to solve the problem of clenching and grinding of teeth during sleep. Dr. Pelerin invented GrindGuard^N, a cost-effective solution made of Udel[®] polysulfone resin from Solvay Advanced Polymers. Dr. Pelerin, who has over 35 years of dental experience, has personally suffered from the problem for over 30 years. He has invented and patented more than 10 products and is also founder of Advantage Dental Products, a supplier of dental products across the U.S. and throughout the world. For more information, call (248) 499-5519 or visit www.grindguardn.com.

About Solvay Advanced Polymers

Solvay Advanced Polymers, LLC produces more plastics with more performance than any other company in the world. This gives design engineers worldwide more ways to solve top design challenges in automotive, medical, electronics, aerospace and other demanding industries. Learn more at www.solvayadvancedpolymers.com.

Solvay is an international industrial Group active in Chemistry. It offers a broad range of products and solutions that contribute to improving quality of life. The Group is headquartered in Brussels and employs 17,000 people in over 40 countries. In 2009, its consolidated sales amounted to EUR 8.5 billion. Solvay is listed on the NYSE Euronext stock exchange in Brussels (NYSE Euronext: [SOLB.BE](http://www.nyse.com/quote/NYSE:SOLB.BE) - Bloomberg: [SOLB.BB](http://www.bloomberg.com/quote/SOLB:BB) - Reuters: [SOLBt.BR](http://www.reuters.com/quote/SOLBt.BR)). Details are available at www.solvay.com.

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