May 12, 2010

Integran introduces Nanovate™ NP - nanometal/polymer hybrid technology

Toronto, Ontario, Canada – May 12, 2010, Integran Technologies Inc. today announced the introduction of their Nanovate™ NP nanometal/polymer hybrid technology designed to improve the strength, stiffness and temperature performance of bare polymer parts. These hybrid parts are targeted to displace lightweight metal solutions such as machined aluminum or die cast magnesium.

Nanovate™ NP hybrids are produced by coating an injection-molded polymer substrate with a thin layer of ultra high-strength metal. The metal coating derives its strength from its nanocrystalline grain structure, and imparts this strength onto the substrate via high- strength interfacial bonds.

In 2007, DuPont and Integran's joint ventures Morph and PowerMetal Technologies announced the introduction of MetaFuse™ nanometal/polymer hybrids which use polymer resins from DuPont specifically designed for the Nanovate™ process. The launch of Nanovate™ NP continues in this work by extending the range of potential polymer substrates to polymers from ABS for simple applications to PEEK for very demanding ones.

"Nanovate™ NP can be used to create high strength and stiffness components but with adding minimal weight, and keeping the design flexibility of an injection molded part." said Andrew Wang, VP Product Development at Integran.

Integran, Morph and PowerMetal Technologies are in active development on Nanovate™ NP hybrid programs in a wide array of industries, including consumer electronics, sporting goods, medical, aerospace and defense.

Website:

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