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Paramount Introduces New Material for Direct Digital Manufacturing, Rapid Prototyping of Parts for National Defense, Aerospace Applications

Leading provider of rapid prototyping, direct digital manufactured parts introduces new material with unprecedented high temperature capabilities and strength characteristics for aerospace and defense applications.

Langhorne, PA ([PRWEB](#)) August 2, 2008 -- Paramount Industries has been selected to spearhead the introduction to the U.S. market of a revolutionary laser sintering carbon fiber-polyamide composite material with unprecedented high temperature capabilities and strength characteristics for use in direct digital manufacturing and rapid prototyping.

The new product, Windform XT, was developed by CRP Technologies, of Modena, Italy, and has demonstrated superior performance characteristics in a wide variety of demanding applications in motor sport racing and other durable goods where exceptional strength and durability are required. Paramount's initial applications will target DOD and aerospace customers with elevated temperature requirements. Paramount has independently tested Windform XT's heat deflection temperature (HDT) confirming use temperatures of 162°C (324°F) @1.82MPa (264psi) (ASTM D648). Windform XT's increased strength and HDT coupled with already proven light weight polyamide part applications will further expand laser sintering and direct digital manufacturing applications.

Originally developed for use in high-end motor racing sports and introduced to the European market in 2004, Windform XT has the highest strength and heat resistance characteristics of any composites available in laser sintering. It also provides exceptional durability under demanding conditions, and is especially well suited to applications requiring optimal reproduction of precise detail.

Paramount CEO Jim Williams indicated that Windform XT is ideally suited to applications in national defense and aerospace technology, where there are stringent demands for materials with extraordinary strength, durability and higher temperatures, together with a need for flexibility in producing and modifying parts quickly and cost-efficiently.

Paramount has been in the forefront of direct digital manufacturing and rapid prototyping of key components in the defense-aerospace sector, in particular with new generations of unmanned airborne, underwater and ground-based surveillance vehicles. Among with company's prominent customers in the sector are Raytheon, AAI, Honeywell, Boeing and Lockheed Martin.

Based in Langhorne, Pennsylvania, Paramount is among the nation's most experienced providers of comprehensive product development services, including product design and engineering, rapid prototyping, rapid tooling and direct digital manufacturing. Today, Paramount is setting the pace in the manufacturing of precision parts directly from 3D CAD digital input, eliminating costly and time-consuming tooling through advanced laser sintering technology.