

News Release

Next Generation Urethane Material for Fire Retardant Applications Offered by Solid Concepts Inc.

VALENCIA, CA – Solid Concepts Inc has introduced a new cast urethane material offering FAR 25.853 Fire Retardant Certification and excellent mechanical properties to its' QuantumCast cast urethanes materials offering. **AFP-3100FR** is a new polymer utilized with Solid Concepts' **QuantumCast™** process, where Advanced Formula Polymers (AFP) are cast in a proprietary rapid tooling technology that offers mechanical properties closely resembling engineered plastics. The resulting castings are void-free, durable, color-matched pieces produced quickly without hard tooling. AFP-3100FR meets FAR 25.853 Fire Retardant Certification requirements and is amongst the toughest material in its class with a 2.10 ft-lb/in Izod Impact Strength (method A, notched) rating. This material is rigid, 424,000 psi flexural modulus (ASTM D790), and heat resistant with a heat deflection temperature of 179° F at 66 psi (ASTM D648). Additionally, Solid Concepts offers Micro-welded inserts - the strongest inserts available in the industry and a variety of AFP's with up four times the impact strength of older urethanes.

Founded in 1991, Solid Concepts supplies rapid prototyping, direct digital manufacturing, tooling and injection molding services. Solid Concepts has grown steadily to a five-facility, multiple technology company known to be a solutions provider with project management and engineering expertise. Capabilities in PolyJet™ high precision 3D printing, Stereolithography (SLA) models and patterns, HDSL (High Definition Stereolithography), Selective Laser Sintering (SLS), Direct Digital Manufacturing, CNC models and patterns, and QuantumCast™ advanced urethane castings, allows for low-volume production of plastic, urethane, and metal components directly from design data, resulting in significant time and cost savings. Capabilities in tooling and injection molding make Solid Concepts a one-stop source to bring concepts from prototype to finished product ready for market. ISO 9001:2008 and AS9100 Rev. B certified.

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