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Rapid Technology Makes Gains

Written by Pamela J. Waterman
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RP Tempering: A Radically New Process Option

A different approach to material development comes from Par3 Technology. It has created a family of processes called RP Tempering that enhances parts made with FDM, SLA, Selective Laser Sintering, and on most 3D printers. Processed parts exhibit increased impact resistance and torsional durability, as well as improved heat resistance and deflection, chemical resistance, flammability, flex strength, and even EMI shielding.

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The RP Tempering technology includes proprietary materials and techniques for 1) sealing parts and improving surface finish; 2) additive applications of special coatings as well as infilling with multi-wall carbon nanotubes; 3) a subtractive engineering process that creates specific geometries within a part for filling; and 4) a patented CAD technique that forms tunnels and spaces within the part file, prior to the rapid build, which can improve such properties as flexibility. A number of OEMs, service bureaus, and actual end-users are working with Par3 Technology on these developments and specific applications. *PW*

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Company Information

Desktop Factory

Pasadena, CA

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Par3 Technology

Cookeville, TN

Roland Advanced Solutions Division

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SLA Materials

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Solid Freeform Fabrication Consortium/ University of Texas

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