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Metabolix Bio-Polyester Binders Show Superior Performance

CAMBRIDGE, Mass., May 11 /PRNewswire/ -- Metabolix's new, low residue binders for metal and ceramic powder processing were featured at Penn State's Center for Dielectric Studies Spring 2000 meeting. In a study reported by Dr. James Adair, Director of the Particulate Materials Center and Associate Professor, Materials Science & Engineering, Metabolix's bio-polyesters demonstrated exceptionally clean burn-out properties in both oxidizing and inert atmospheres. Polymer decomposition initiates around 220 Degrees Centigrade and is generally complete below 350 Degrees Centigrade, providing both reduced energy costs and a resultant product with essentially zero inorganic or carbon residues from the binder. These developmental binders have glass transition temperatures ranging from around +6 Degrees Centigrade to -55 Degrees Centigrade, providing a range of mechanical properties in the polymer/particulate composite formulations. They are available in latex, resin, and powder forms.

Metabolix Inc. is using advanced biotechnology to develop and sustainably produce environmentally friendly polymers, and to provide a new basis for chemical production from agricultural sources.

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