

Synchrotron X-ray Characterization and The Development of a Biomaterials Pipeline at DuPont

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For over 20 years, the DuPont-Northwestern-Dow Collaborative Access Team (DND-CAT) at the Advanced Photon Source has been supporting the development of a biomaterials pipeline at DuPont. Studies at DND-CAT have enabled elucidation of the structure of these materials in terms of crystallinity, morphology and orientation development during processing, in addition to correlation of microstructure with end-use properties. I will focus on three specific products.

- Sorona® - Eco-efficient Performance Fiber for Home Interiors and Apparel
- Everact® - Renewable and High Barrier FDCA-Based Polyesters for Beverage, Food, and Industrial Packaging Markets
- Nuvolve® - An Engineered Polysaccharide for Industrial and Food Applications