

**Evaluation summary of Malvern Panalytical Epsilon EDXRF with Fingerprint application for screening various sheet glass compositions.**

Eileen M. Fanning

Corning Incorporated

Energy Dispersive X-Ray Fluorescent Spectrometry (EDXRF) has been used at Corning Incorporated for identifying and sorting materials and glasses. Traditionally the quantitative or semi-quantitative data is reviewed and compared to know glass and material compositions. This is time consuming and not easy to implement in a production setting. The Malvern Panalytical Fingerprint product identification software on the Epsilon 3 was tested on several similar and non-similar sheet glass products, in several different thicknesses and sheet sizes. The results indicated the Epsilon EDXRF with Fingerprint PCA software can identify the different sheet glass compositions without knowing anything about the glass/material compositions. A summary of this data will be presented at the 2018 Denver X-Ray conference XRF Poster session.