

PEF (polyethylenefuranoate) is a 100% bio-based and recyclable polymer which can be used for a wide variety of applications, in particular packaging. The polyester is in many ways similar to PET and fits well with existing PET production, processing and recycling equipment. On the other hand, the material is new, and has significantly higher barrier and other improved properties over PET and other packaging materials. This opens up new packaging opportunities where recyclable plastics are sparsely used today. Avantium's pilot plant in Geleen, The Netherlands, has been producing FDCA since 2011, giving Synvina and its partners ample know-how and experience in effective high-quality PEF production as well as its various end-use applications, such as bottles, films and fibers. In this session we would like to share some of these experiences.