



Contribution ID: 146

Type: **Poster**

【151】 Raman spectroscopic characterization of PLA 3D printing filaments

Wednesday 23 August 2017 12:44 (1 minute)

Detailed characterization by means of confocal Raman microscopy of interfaces present in the raw material formulations of several PLA 3D printing filaments, as well as in 3D shaped bodies, have been performed in order to gain information on polymer/polymer interfaces, these having a decisive influence on the mechanical properties as well as the formability or the homogeneity of the final material. This study has been done within the project Interreg Bayern Austria AB97 TFP-HyMat, having as target the establishment of a cross-border technology and research platform for the production and processing of hybrid materials, using as example biogenic filaments for 3D printing.

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Session Classification: Poster Session

Track Classification: Condensed Matter Physics (incl. NESY)