



Structural Characterization

CRYSTALLOGRAPHY AND STRUCTURAL ANALYSIS

KEY WORDS

STRUCTURAL
CHARACTERIZATION
OF POLYMERS,

CRYSTALLOGRAPHIC
ANALYSIS,

STRUCTURAL
ANALYSIS OF
POLYMERS

DESCRIPTION

PMD²XEI (X-ray diffraction and scattering measurement platform) has comprehensive capabilities in the crystallographic and structural characterization of polymeric materials, enabling the analysis of crystalline phases, degree of crystallinity, molecular organization, and processing-induced structural evolution. Using advanced X-ray-based techniques, these capabilities support research into structure-property-process relationships in virgin, recycled, and bio-based polymers, as well as in multiphase and formulated systems.

APPLICATIONS

Virgin and bio-based polymers, polymer-based composite materials

CONTACT US

dominik.schaniel@univ-lorraine.fr

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[Université de Lorraine](#)