
Your Contribution

Interested groups or individuals are invited to contact any of the officers of CCP13 to obtain information about CCP13 Workshops, software developments, software standards and so on. Offers of home-written software that could be incorporated into the new CCP13 suite of programs would be much appreciated and will, of course, permanently carry the authors' attribution. Make sure that you are on the CCP13 mailing list and you will be kept informed.

Newsletter Editorial Policy

Articles for inclusion in the CCP13 Newsletter are welcome by the Editor at any time, but preferably items for the December 1995 issue should arrive before the end of November 1995. It is hoped that the Newsletter will become an Annual 'essential' for Fibre Diffractionists. This is the place to advertise your fibre diffraction or NCD meetings, to report on new software or 'hot' results obtained using the CCP13 Suite and to provide reports of meetings of interest, preferably together with one or two photographs. All technical articles will be scrutinised both for scientific content and presentational style by the Editor (or his nominee) together with at least one other member of the CCP13 Steering Panel. In this way we hope to maintain high standards. Remember that the Newsletter not only goes to other Fibre Diffractionists, but also to various members of the Research Council Secretariats and to other funding agencies.

International Cooperation

Although these CCPs are UK funded projects, there is a very strong interest in making them international through cooperation with interested scientists in other countries. A natural link for CCP13, for example, exists with the Special Interest Group (SIG) in Fibre Diffraction of the American Crystallographic Association and possibly with some American synchrotron users (CHESS). Others exist with the ESRF at Grenoble and with the Photon Factory in Japan.

COVER PHOTOGRAPH

A single crystal texture from orthorhombic polyethylene.

The WAXS data was taken using an image plate 10 cm from the sample with a helium filled camera. The corresponding SAXS data was also recorded on an image plate at 4.5m with an evacuated camera.

The material is a copolymer of polyvinylcyclohexane (PVCH) and polyethylene (PE). The morphology of the sample is lamella with alternating 100 angstrom layers of semi-crystalline PE and glassy PVCH. The material was oriented under shear prior to crystallisation. The confinement of the PE between glassy layers of PVCH leads to chainfolded crystals oriented parallel to the walls. The X-ray beam is parallel to the lamella and samples the PE crystals along the chain-axis. The simultaneously obtained SAXS pattern (through the hole in the image plate) confirmed the lamella orientation of the block copolymer structure and the semi-crystallinity of the PE.