

can take up to 20 min. The higher the temperature and humidity, the greater is the rate of polymerization, with humidity being more important.

The average polymer has an approximate softening point between 150 and 170°C, and melts about 185–205°C. The glass transition point is just above the softening temperature. It is possible to dissolve the polymer overnight in dimethylformamide, dimethylsulphoxide, nitromethane, and acetonitrile. Acetone will dissolve the ethyl polymer but not the methyl one. Caustic soda solution (10%) at room temperature for a few days and up to twenty minutes at 70°C will also dissolve the polymer. The cement has about 20–30% crystallinity, and gives an amorphous halo in an X-ray powder photograph.

It is possible to dilute the monomer with other solvents, provided they are free of water. The monomers are soluble in benzene, toluene, xylene, petrol, acetone, ether, ethyl acetate, methyl ethyl ketone and nitromethane. However, alcohol and amines will initiate polymerization.

According to available commercial technical information* great care should be used in handling the monomer, and the cement should not touch the skin or eyes. It has a characteristic odour, and overexposure will give an eyeache and excessive excretion of nasal mucus. At room temperature it has a shelf life of six months.

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* 'Cyanabond', Technical Information, Sumitomo Chemical Co. Ltd., Osaka, Japan. 'Eastman 910 Adhesive', Technical Information, Eastman Chemical Products, Inc., Kingsport, Tenn. 37662 U.S.A.

Crystallographers

This section is intended to be a series of short paragraphs dealing with the activities of crystallographers, such as their changes of position, promotions, assumption of significant new duties, honours, etc. Items for inclusion, subject to the approval of the Editorial Board, should be sent to the Executive Secretary of the International Union of Crystallography (J. N. King, International Union of Crystallography, 13 White Friars, Chester CH1 1NZ, England).

Professor J. F. Pócza, Head of the Department for Structure Research at the

Research Institute for Technical Physics of the Hungarian Academy of Sciences, Budapest, died on 10 September 1975. His early research was on structure determinations and later he studied the thin film growth processes by electron-microscope *in situ* methods, a field in which he earned international renown. He was the author of several scientific books and a member of the Editorial Board of *Thin Solid Films*.

International Union of Crystallography

Commission on Journals

Notes for Authors

The Commission has decided to undertake a revision of *Notes for Authors*. Deposition of structure-factor tables will become the normal practice, and publication will take place only when the nature of the paper is such that immediate reference to the tables is necessary. Any suggestions for other changes in *Notes for Authors* would be welcome and should be sent to the Chairman of the Commission, Professor A. J. C. Wilson, Department of Physics, The University of Birmingham, Birmingham B15 2TT, England.

Notes and News

Announcements and other items of crystallographic interest will be published under this heading at the discretion of the Editorial Board. The notes (in duplicate) should be sent to the Executive Secretary of the International Union of Crystallography (J. N. King, International Union of Crystallography, 13 White Friars, Chester CH1 1NZ, England).

Structure Reports

Nine more volumes of *Structure Reports* have just been published, bringing this indispensable series right up to date, covering all the literature up to the end of 1973. The latest volumes to be published are:

Volume 32A, covering the literature for metals and inorganic compounds for 1967 (viii + 525 pages). Price: 115 Netherlands guilders.

Volume 34A, covering the literature for metals and inorganic compounds for 1969 (viii + 413 pages). Price: 90 Netherlands guilders.

Volume 34B, covering the literature for organic compounds for 1969 (viii + 646 pages). Price: 135 Netherlands guilders.

Volume 37A, covering the literature for metals and inorganic compounds for

1971 (viii + 376 pages). Price: 90 Netherlands guilders.

Volume 37B, covering the literature for organic compounds for 1971 (viii + 768 pages). Price: 185 Netherlands guilders.

Volume 38A, covering the literature for metals and inorganic compounds for 1972 (viii + 412 pages). Price: 115 Netherlands guilders.

Volume 38B, covering the literature for organic compounds for 1972 (bound in two parts: viii + 562 pages and iv + 570 pages). Price: 260 Netherlands guilders.

Volume 39A, covering the literature for metals and inorganic compounds for 1973 (viii + 392 pages). Price: 115 Netherlands guilders.

Volume 39B, covering the literature for organic compounds for 1973 (viii + 962 pages). Price: 245 Netherlands guilders.

Orders for these volumes, and for the earlier volumes including those published in late 1974 and early 1975, may be placed direct with the publisher (Oosthoek, Scheltema & Holkema, Emmalaan 27, Utrecht, The Netherlands), with Polycrystal Book Service, P.O. Box 11567, Pittsburgh, Pa. 15238, U.S.A., or with any bookseller. Details of price reductions for personal subscriptions and for standing orders may be obtained direct from Oosthoek, Scheltema & Holkema or from Polycrystal Book Service.

Walter C. Hamilton Scholarships

Applications are invited for Walter C. Hamilton Scholarships in crystallography for the academic year 1976–77.

The Walter C. Hamilton Memorial Fund, established in 1973 under the auspices of Associated Universities, Inc., is used to provide travel and living expenses for students who wish to go to Brookhaven for limited periods of time (usually no more than about two months) to pursue their research problems using neutron diffraction. All research and computational facilities of the Laboratory are fully available to the students during their stay.

To apply for one of the scholarships, the student must submit a research proposal of five pages or less, a summary of his or her educational background and experience (which should include some acquaintance with diffraction techniques) and three letters of reference. These materials should be sent to the Chairman, Chemistry Department, BNL, Upton, NY 11973, and will be reviewed by the W. C. Hamilton Scholarship Committee. Applications for the 1976–77 academic year should be received by March 1, 1976.