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Making an imPACt

Definition of Terms Related to Polymer Blends, Composites, and **Multiphase Polymeric Materials** (IUPAC Recommendations 2004)

W.J. Work, K. Horie, M. Hess, and R.F.T. Stepto Pure and Applied Chemistry Vol. 76, No. 11, pp. 1985-2007 (2004)

This document defines the terms most commonly encountered in the field of polymer blends and composites. The scope has been limited to mixtures in which the components differ in chemical composition or molar mass and in which the continuous phase is polymeric. Incidental thermodynamic descriptions are mainly limited to binary mixtures although, in principle, they could be generalized to multicomponent mixtures.

The document is organized into three sections. The first defines terms basic to the description of polymer mixtures. The second defines terms commonly encountered in descriptions of phase domain behavior of polymer mixtures. The third defines terms commonly encountered in the descriptions of the morphologies of phase-separated polymer mixtures.



www.iupac.org/publications/pac/2004/7611/7611x1985.html

Characterization of Polyamides 6, 11, and 12. Determination of Molecular Weight by Size Exclusion Chromatography (IUPAC Technical Report)

E.C. Robert, et al. Pure and Applied Chemistry Vol. 76, No. 11, pp. 2009-2025 (2004)

This report presents the results from IUPAC Working Party IV.2.2 of the global trial within the framework of IUPAC Commission IV.2, "Characterization of Commercial Polymers." The results were compared on the basis of molecular weight obtained by size exclusion chromatography (SEC) using different techniques practiced in participating laboratories, the majority of which were materials suppliers. The practical methodologies used different solvents for the polymers, in particular, benzyl alcohol, 1,1,1,3,3,3 hexafluoropropan-2-ol and tetrahydrofuran: the latter solvent was used after chemical modification of the polyamides, in general with trifluoroacetic anhydride. Eight laboratories participated in the trial. The repeatability for molecular weight in each laboratory was good, whatever technique was used, the relative standard deviation averaged over all laboratories was around 3%. The

New Online Submission and Peer Review System for PAC

uring 2004, an online submission and peer-review system was implemented for Pure and Applied Chemistry. The new Webbased workflow for manuscript handling will enable Scientific Editor James R. Bull to implement peer review of manuscripts from IUPAC-sponsored conferences, which was formerly a discretionary option of the conference organizers. The system also provides support to John W. Lorimer and Bernado J. Herold, editors of IUPAC Recommendations and Technical Reports and respectively chairman and secretary of the Interdivisional Committee on

Terminology, Nomenclature and Symbols.

ScholarOne® Manuscript Central™ is the system IUPAC has chosen for PAC. ScholarOne, Inc. is a leading provider for online submission, review, and tracking of scholarly manuscripts. During the first half of 2004, it signed 17 new clients representing 76 unique journals. These journals join the diverse ScholarOne community, whose titles receive annual submissions ranging from 100 to 5 000 submissions per year and cover a broad spectrum of disciplines, including the humanities, life sciences, engineering, com-

puter science, and social sciences. Presently, Manuscript Central has over 1.1 million global registered users and processes more than 27 000 manuscript submissions per month.

For PAC, the system was configured to work on invitation only. Authors of conference papers or technical reports are invited to review the instructions for authors and—if it applies—request an invitation to submit manuscripts online <www.iupac.org/publications/</pre> authors/instructions.html>.

Questions or comments may be sent by e-mail to <edit.pac@iupac.org>.