

6th ICPC Poster Presentations

#1· Chain Microstructures of Living Ethylene/1-Octene Block Copolymers via Dynamic Monte Carlo Simulation.

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#2· The Bivariate Distribution of Molecular Weight and Chemical Composition of Olefin Block Copolymers.

Poramet Buakrong¹, Siripon Anantawaraskul¹, João B.P. Soares².

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#3· Mathematical Model of Multiple High Temperature Thermal Gradient Interaction Chromatography (m-TGIC) of Ethylene/1-Olefin Copolymers.

Siwakorn Prasongsuksakul¹, Siripon Anantawaraskul¹, João B.P. Soares².

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#4· Effect of Interdetector Delay on Mark-Houwink Constants in Gel Permeation Chromatography with Triple Detection.

Wensheng Bu.

Institute of Chemistry, Chinese Academy of Sciences (China)

#5· Preparative molar mass fractionation approach for the evaluation of the microstructural properties of branched Polyethylene (LDPE)

Paul S. Eselem Bungu, Harald Pasch.

Stellenbosch University (South Africa)

#6· Microfine Ultra High Molecular Weight Polyethylene Produced by MgO-based Ziegler-Natta Catalyst.

Patchanee Chammingkwan, Bando Yosuke, Minoru Terano, Toshiaki Taniike*.

Japan Advanced Institute of Science and Technology (Japan)

#7· Fractionation of heterophasic ethylene-propylene copolymers by preparative TREF column.

Shangtao Chen, Xingbo Shi, Fengbo Zhang, Yangfan Wang, Qiang Huang.

Petrochemical Research Institute, Petrochina (China)

#8· Fully Automated Intrinsic Viscosity Measurement in Polyolefins

Pilar del Hierro, Alberto Ortín, Juan Sancho-Tello, Benjamín Monrabal

Polymer Char (Spain)

#9· High throughput solubles determination by a fast TREF technique.

Pilar del Hierro, Alberto Ortín, Juan Sancho-Tello, Benjamín Monrabal

Polymer Char (Spain)

#10· Prediction of mechanical and physical properties of Polyolefins by low field NMR-Intricacies of Model Development.

Vishal Goel, Ms. Priyanka Luthra, G S Kapur.

Indian Oil Corporation (India)

#11· Application of Rheology to High Density Polyethylene Pipe Processing.

Kai Jiang, Yanfang Wang, Bin Du, Yujian Zhang, Yudong Cai, Xiaoying Lu, Qiang Huang.

Petrochemical Research Institute, Petrochina (China)

#12: Rheology as a tool to quantify the cross-link density in polyethylenes cross-linked using different cross-linking technologies.

Kaschta, Joachim¹, Heiduk Ines², Falk Martin², Walter Lisa², Schubert Dirk W¹.

¹Friedrich-Alexander-University (Germany), ²Fränkische Rohrwerke Gebr. Kirchner GmbH & Co (Germany)

#13: A Morphological Investigation On Abiotic Degradation Of High Density Polyethylene Films Containing Various Concentrations Of Addiflex Pro-Oxidants.

Soheyl Khajehpour- Tadavani¹, Gholam-Reza Nejabat*¹, Seyed-Mohammad-Mahdi Mortazavi².

¹Islamic Azad University (Iran), ²Iran Polymer and Petrochemical Institute, IPPI (Iran)

#14: Abiotic Degradation Of High Density Polyethylene Samples Containing Oxo-Biodegradable Additives: MFI Investigation.

Soheyl Khajehpour- Tadavani¹, Gholam-Reza Nejabat*¹, Seyed-Mohammad-Mahdi Mortazavi².

¹Islamic Azad University, ²Iran Polymer and Petrochemical Institute, IPPI (Iran)

#15: Chemical Structures Characterization Of High Density Polyethylene Films Containing Different Concentrations Of Oxo-Biodegradable Additive.

Soheyl Khajehpour- Tadavani¹, Gholam-Reza Nejabat*¹, Seyed-Mohammad-Mahdi Mortazavi².

¹Islamic Azad University, ²Iran Polymer and Petrochemical Institute, IPPI (Iran)

#16: Evaluating The Abiotic Degradation Of High Density Polyethylene Films Containing Pro-Degradants Under UVC Exposure.

Soheyl Khajehpour- Tadavani¹, Gholam-Reza Nejabat*¹, Seyed-Mohammad-Mahdi Mortazavi².

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#17: Industrial Applications Of Fast-Scanning Dsc: New Opportunities For Studying Polypropylene Crystallization.

Ralf Kleppinger^{1,2}, Daniel Istrate¹, Klaas Remerie².

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#18: Influence of chain microstructure on LLPS and crystallization of dual reactor Ziegler-Natta made impact polypropylene ethylene copolymers (IPC).

L. Santonja-Blasco¹, W. Rungswang², R.G. Alamo¹.

¹Florida State University (USA), ²SCG Chemicals (Thailand)

#19: Progress in one shot fractionation and quantitation of polyolefin formulations.

Nicolas Longiéras.

PEAKEXPERT (France)

#20: Quantitative analysis of molecular heterogeneities of polyolefins using high temperature two dimensional liquid chromatography

Sampat Singh Bhati, Tibor Macko, Robert Brüll.

Fraunhofer Institute, LBF (Germany)

#21: Boron nitride, molybdenum disulfide and tungsten disulfide as column packing for separation of polyethylene and polypropylene.

Sampat Singh Bhati¹, Benjamín Monrabal², Robert Brüll¹, Tibor Macko¹.

¹Fraunhofer Institute, LBF (Germany), ²Polymer Char (Spain)

#22: Thermal-Gradient NMR Spectroscopy of EPDM: Interaction with Graphite only by the Backbone or by the Whole Molecule?

Frank Malz¹, Robert Brüll¹, Zhe Zhou², Rongjuan Cong², Dibyanjan Mekap³, Willem deGroot².

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#23· Spectral separation of polyolefin mixtures at high temperature by 13C-detected DOSY with thermal convection suppression.

Mitsuhiro Onda, Kyoko Hiroike, Hiroko Sato, Takumi Yamanoue.
Mitsui Chemical Analysis & Consulting Service (Japan)

#24· Novel GPC triple detector approaches for branching analysis in Polyethylene: estimating g-index from gpcBR.

Alberto Ortín¹, Juan Sancho-Tello¹, Esther López¹, Pilar del Hierro¹, Wallace W. Yau².
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#25· Comparison of GPC triple detector methods for absolute molar mass determination.

Alberto Ortín¹, Juan Sancho-Tello¹, Esther López¹, Pilar del Hierro¹, Wallace W. Yau².
¹*Polymer Char (Spain)*, ²*Polyolefin Characterization Consultant (USA)*

#26· Advanced data processing for dual-detector GPC-QC: Band-broadening correction method based on effective volume offset (EVO).

Alberto Ortín¹, Juan Sancho-Tello¹, Esther López¹, Pilar del Hierro¹, Benjamín Monrabal¹, Wallace W. Yau².
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#27· Deconvolution of PP-PE mixtures by using measured chromatograms by multiple band IR detector.

Alberto Ortín, Jesús Montesinos, Benjamín Monrabal.
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#28· High Impact Polypropylene: Morphology generation during homo-stage.

Miguel Plata¹, Michael Bartke^{1,2}.
¹*Martin Luther University (Germany)*, ²*Dutch Polymer Institute, DPI (The Netherlands)*

#29· Separation of bimodal HDPE according to both the molar mass and chemical composition distribution.

K. N. Prabhu¹, K. Remerie², J. Tacx², A. Ginzburg², P. Garg², T. Macko¹, F. Malz¹, R. Brüll¹.
¹*Fraunhofer Institute, LBF (Germany)*, ²*SABIC Technology and Innovation (The Netherlands)*

#30· Characterization of grafted polypropylenes using multidimensional liquid chromatography with quantitative detection.

K. N. Prabhu¹, K. Remerie², J. Tacx², P. Garg², A. Ginzburg², T. Macko¹, F. Malz¹, R. Brüll¹.
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#31· Analytical solution to polymeric multilayer film.

Shengying Qian, Guang Liu, Bin Chen, Wesley Li, Ying Lin, Shan Qin, Xiaofeng Yu.
SABIC Research & Development Centre (China)

#32· Effect of comonomer content distribution on the strong memory effect of crystallization and liquid-liquid phase separation in the melt of Ziegler-Natta and metallocene ethylene copolymers.

Minqiao Ren¹, Honghong Huang¹, DongWei¹, Meifang Guo¹, Rufina G. Alamo².
¹*SINOPEC Beijing Research Institute of Chemical Industry (China)*, ²*Florida State University (USA)*

#33· Microscopic analysis of melting and crystallization behaviors for isotactic polypropylene.

Kento Takeda, Yusuke Hiejima, Koh-hei Nitta.
Kanazawa University (Japan)

#34· Microscopic deformation behaviors of polyethylene and polypropylene probed by in situ Raman spectroscopy.

Takumitsu Kida, Yusuke Hiejima, Koh-hei Nitta.
Kanazawa University (Japan)

#35· Relation of Non-linear viscoelasticity and processing properties of polyethylene studied by Large amplitude oscillatory shear technique.

Boonyakeat Thitisuk, Thippaya Pathaweisariyakul, Kanyanut Narkchampan, Marutpong Srisawat.
SCG Chemicals (Thailand)

#36· Investigation of initial radical formation leading to degradation of polypropylene.

Taira Tobita, Patchanee Chammingkwan, Toshiaki Taniike, Minoru Terano.
Japan Advanced Institute of Science and Technology (Japan)

#37· The study of multi-scale structures of impact polypropylene copolymers.

Xiaoying Lu, Qiang Huang, Yujian Zhang, Yudong Cai, Yujie Wang, Linmei Wu.
Petrochemical Research Institute, Petrochina (China)

#38· Fractionation and chain structure of a complex branched polyethylene.

Yanhu Xue, Shuqin Bo, Xiangling Ji.
Chinese Academy of Sciences (China)

#39· Competition between α , β and γ Crystals in β -nucleated Propylene-ethylene Random Copolymer under Shear Flow.

Ying Zhao, Chunbo Zhang, Guoming Liu, Dujin Wang.
Chinese Academy of Sciences (China)

#40· Characterization of the Microstructure of Ethylene-propylene Random Copolymer by preparative Temperature Rising Elution Fractionation.

Zu Fenghua, Wang Li, Li Rongbo, Yi Jianjun.
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