

# KHK 2010 – Poster list



- 1 **Dering, Jan Peter**; RWTH, Institut für Kunststoffverarbeitung  
Walter Michaeli, Hannoah Köppen  
*Process Development of Rubber Compounds with PTFE Micro Powder in Order to Improve Tribological Properties*

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- 2 **Doniga-Crivat, Mircea**; DIK  
Jörn Ihlemann, Daniel Juhre  
*Implementierung der SOLP-Theorie unter Berücksichtigung des Zerfalls chemischer und physikalischer Bindungen in Gummimaterialien*

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- 3 **Dulas, Steffen**; TU Chemnitz, Festkörpermechanik  
Jörn Ihlemann  
*Erweiterung des Morph-Stoffgesetzes um die Nachbildung belastungsinduzierter Anisotropie*

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- 4 **Eggers/Misiun, Nina/Anna**; DIK  
Robert Schuster  
*Novel Hybrid Nanomaterials Based On Acrylate Polymers*

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- 5 **Feranc, Jozef**; Polymer Institute  
Pavol Alexy, Ivan Hudec  
*Application of Lignins as a Filler in Natural Rubber Blends*

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- 6 **Fischer, Anja**; Leibniz-Institut für Polymerforschung  
Thomas Götze, Sven Richter, Uwe Gohs, Gert Heinrich  
*Elektronenstrahlmodifizierung von Verstärkerfüllstoffen in Elastomeren - Ein Beispiel für Wege zu energieeffizienten Elastomeren*

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- 7 **Friehmelt, Rainer**; Evonik Degussa GmbH  
*Fumed silica in rubber applications*

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- 8 **Geberth, Eszter**; DIK  
Manfred Klüppel  
*The role of filler-polymer-filler bonds in mechanical and electrical properties of elastomers*

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- 9 **Gerardy-Schahn, Rita**; Institut für Zelluläre Chemie, Medizinische Hochschule Hannover  
Friedrich Freiburger, Timothy Keys  
*In vitro synthesis of biodegradable polysialic acid*

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- 10 **Hao, Da**; Kautschuktechnologie RWTH  
Edmund Haberstroh  
*Process analysis for the compounding of silica-filled rubber in twin-screw extruders*

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- 11 **Hess, Mareike**; DIK  
Ulrich Giese, Harald Geisler  
*Recycling - The Mechanism of De-Vulcanization*

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- 12 **Kaplan, Cihan**; DIK  
Anna Misuin, Matthias Lückmann, Harald Geisler, Ulrich Giese  
*Atmospheric pressure plasma for improved adhesive bonding*

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- 13 **Karl, Christian**; DIK  
L. Busse, M. Klüppel, U. Giese  
*Varnish coating of elastomers: Morphology, Friction and surface energies*

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- 14 **Keller, Melanie**; Martin-Luther-Universität  
Sybill Ilisch, Hai H. Le, Hans-Joachim Radosch  
*Influences of processing and recipe on cure behavior and dynamic mechanical properties of SSBR-silica compounds*

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- 15 **Klose, Jens**; HTW-Dresden  
G. Müller-Hagen, K. Harre, B. Ihme, G.-F. Steindecker, F.-H. Rögner, U. Gohs, G. Heinrich  
*Investigation of the surface bromation mechanism of NBR and CR rubbers*

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- 16 **Kosugi, Kenichiro**; Department of Materials Science and Technology, Nagaoka University  
Keiichi Akabori, Yoshimasa Yamamoto, Seiichi Kawahara  
*Morphology and viscoelastic properties of polystyrene grafted natural rubber with nanmatrix structure*

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- 17 **Kreyenschulte, Hermann**; Leibniz-Institut für Polymerforschung  
Sven Richter, Marina Saphiannikova, Gert Heinrich  
*Viscoelastic behavior of uncrosslinked EPDM filled with carbon black*

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- 18 **Kurzdin, Fabian**; DIK  
Edmund Haberstroh, Robert H. Schuster, Ulrich Giese  
*Influence of process parameters on TPV properties and process analysis of dynamic vulcanization*

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- 19 **Lückmann, Matthias**; DIK  
Cihan Kaplan, Harald Geisler, Ulrich Giese  
*Treatment of Different Rubber Surfaces by Plasma Enhanced Vapour Deposition (PECVD)*

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- 20 **Meier, Johann Georg**; Instituto Tecnológica de Aragón  
J. M. Bielsa, C. Crespo, J. L. Pelegay, P. Castell, W. Maser, A. Benito  
*On the processing dependency of polymer-filler interactions in composites of MWCNTS and SEBS*

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- 21 **Möwes, Markus**; DIK  
Manfred Klüppel, Ulrich Giese  
*Monitoring of CB-Network in rubber melt under oscillatory shear by dielectric spectroscopy*
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- 22 **Munsch, Jean Nicolas**; Institut de Science des Matériaux de Mulhouse  
Bassel Haidar  
*Flow Micro Calorimeter as a tool to measure polymer adsorption on powder's surface*
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- 23 **Navarro Torrejón, Yolanda**; DIK  
Ulrich Giese  
*Investigation of reaction products from p-phenyenediamines during thermal oxidative aging in model systems*
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- 24 **Nicinski, Karol**; IMPIB-Elastomers & Rubber Technology  
Wanda Parasiewicz, Marek Tulik, Jan Mezynski  
*Devulcanization of scrap rubber in twin-screw extruder*
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- 25 **Oprisoni, Christian**; DIK  
Thomas Alshuth, Robert H. Schuster  
*ultrasonic dynamic - mechanical evaluation of nanofilled elastomers*
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- 26 **Parasiewicz, Wanda**; IMPIB-Elastomers & Rubber Technology  
Jan Mezynski, Karol Nicinski, Dariusz M. Bielinski  
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- 27 **Posadas Bernal, Pilar**; Instituto de Ciencia y  
Juan Lopez-Valentin, Luis Gonzales Hernandez  
*Analysis of the pendant group in accelerated sulphur vulcanized EPDM*
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- 28 **Reincke, Katrin**; Martin Luther Universität  
Nicole Kahnt, Beate Langer, Wolfgang Grellmann  
*Einfluss thermisch-medialer Beanspruchungen auf die mechanischen Eigenschaften von Elastomeren*
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- 29 **Roaj, Sandip**; Leibniz-Institut für Polymerforschung  
Amit Das, Gert Heinrich  
*Development of elastomer nanocomposites based on halloysite nanotubes*
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- 30 **Rost, Heinz Christian**; Federal Mogul Sealing Systems  
Markus Honold, Ralf Salameh  
*Close to reality compability asesment of sealing materials and biofuels*
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- 31 **Schobel, Andreas**; RWTH Institut für Kunststoffverarbeitung  
Ulrich Masberg, Walter Michaeli  
*Charakterisierung mehrachsiger Beanspruchungszustände und deren Berücksichtigung in der Struktur-Simulation von Elastomerbauteilen*
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- 32 **Schrittesser, Bernd**; Polymer Competence  
Laszlo Oláh, Zoltan Major, Thomas Schwarz  
*Implementation of an in situ constrained test set up for rapid gas decompression failure analysis*
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- 33 **Shioyama, Shintaro**; Department of Materials Science and Technology, Nagaoka University  
Yoshimasa Yamamoto, Seiichi Kawahara  
*Bromination of natural rubber and introduction of phenyl group by suzuki miyaura cross-coupling reaction*
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- 34 **Sitz, Sarah**; RWTH, Institut für Kunststoffverarbeitung  
Walter Michaeli  
*Analysis of the free expansions behaviour of chemically foamed rubber compounds*
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- 35 **Subramaniam, Kalaivani**; Institut für Polymerforschung Dresden  
Amit Das, Gert Heinrich  
*Development of advanced elastomeric composites using ionic liquid modified multiwalled carbon nanotubes*
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- 36 **Tada, Toshio**; Sumitomo Rubber Industries Ltd.  
Kenji Urayama, Toshikazu Takigawa  
*Assessment of separability of strain and time effects on viscoelasticity of filled elastomers*
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- 37 **Vaulot, Cyril**; Institut de Science des Matériaux de Mulhouse  
Bassel Haidar  
*Delimitation mechanism of a synthetic montmorillonite in PDMS media*
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- 38 **Wu, Miao**; Fachhochschule Osnabrück  
Norbert Vennemann  
*Charakterisierung der Polymer - Füllstoff - Wechselwirkungen mit Hilfe von anisothermen Spannungs-Relaxationsmessungen am Beispiel von SBR/Silica*
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- 39 **Zabel, Mathias**; DIK  
Robert H. Schuster  
*Mechanical Properties of SBR-composites with nano-scale cellulose as filler*
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- 40 **Zimmermann, Heike**; DIK  
Ulrich Giese, Robert H. Schuster  
*Influence of rubber matrix and processing conditions on electrical percolation threshold of NR/CNT- and FKM/CNT-nanocomposites*
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