

PUBLIKATIONEN

Dissertation

T. Neumeyer

Struktur und Eigenschaften neuer, flammgeschützter Prepreg-Matrixsysteme für Anwendungen in der Kabine von Verkehrsflugzeugen

Fakultät für Ingenieurwissenschaften der Universität Bayreuth
TuTech Verlag, TuTech Innovation GmbH, Hamburg, 2015
ISBN 978-3-946094-01-2

Buchveröffentlichungen

H. Lengsfeld, J. Lacalle, T. Neumeyer, V. Altstädt

Composite Technology – Prepregs and Monolithic Part Fabrication Technologies

2. Auflage, Carl Hanser Verlag, München, 2021
ISBN 978-1-56990-825-9

H. Lengsfeld, J. Lacalle, T. Neumeyer, V. Altstädt

Faserverbundwerkstoffe – Prepregs und ihre Verarbeitung

2. Auflage, Carl Hanser Verlag, München, 2020
ISBN 978-3-446-44882-7

Buchkapitel

R. Weber, T. Neumeyer

Life Cycle Assessment for Different Recycling Routes of Polystyrene

In: N. Niessner, Hrsg. Recycling of Plastics
1. Auflage, Carl Hanser Verlag, München, 2022
ISBN 978-1-56990-856-3

J. Nüßlein, T. Neumeyer

Reuse

In: N. Niessner, Hrsg. Recycling of Plastics
1. Auflage, Carl Hanser Verlag, München, 2022
ISBN 978-1-56990-856-3

Begutachtete Publikationen

F. Kronowetter, P. Wagner, J. Kolodi, I. Brabandt, T. Neumeyer, N. Rümmler, S. Marburg

Novel compound material and metamaterial wheelhouse liners for tire noise reduction

Mechanical Systems and Signal Processing 200(XX), pp. aa-bb, 2023

A. Seefeldt, M. Dippold, J. Gensel, T. Neumeyer, V. Altstädt

Direct printing of high-performance thermoplastic connection and stiffening elements by fused filament fabrication

AIP Conference Proceedings 2607(1), pp. 120002-1 – 120002-6, 2023

K. Krause, M. Hartbauer, T. Neumeyer, V. Altstädt

Structure-property-relationships for lightweight parts produced via co-injection molding and foam injection molding

Journal of Plastics Technology 19(1), pp. 27-51, 2023

P. Zhu, A. Brückner, T. Neumeyer, T. Standau, H. Ruckdäschel, V. Altstädt, X. Dong, D. Wang
Fatigue Characteristics of Poly(ether- b -amide) Elastomers during Cyclic Dynamic Tests and the Underlying Microstructural Evolution

Industrial & Engineering Chemistry Research 61(40), pp. 14760-14771, 2022

M. A. Weinbrenner, R. Weber, T. Neumeyer, V. Altstädt
Influence of Foam Density on Burning Behavior of Polymer Bead Foams

Journal of Applied Polymer Science 139(4), 51558, 2022

T. Rosnitschek, A. Seefeldt, B. Alber-Laukant, T. Neumeyer, V. Altstädt, S. Tremmel
Correlations of Geometry and Infill Degree of Extrusion Additively Manufactured 316L Stainless Steel Components

Materials 14(18), 5173, 2021

F. Habla, M. Kropka, M. Mühlbacher, T. Neumeyer, V. Altstädt
Tailor Made Hybrid Laminates Based on UD-Tapes – A Way to Efficient Thermoplastic Components

Key Engineering Materials 809, pp. 41-46, 2019

K. Utaloff, M. H. Kothmann, M. Ciesielski, M. Döring, T. Neumeyer, V. Altstädt, I. Gorman, M. Henningsen
Improvement of fracture toughness and glass transition temperature of DGEBA-based epoxy systems using toughening and crosslinking modifiers

Polymer Engineering & Science 59(1), pp. 86-95, 2019

L. Helmlinger, Y. Zhu, J. Gensel, T. Neumeyer, S. Thäter, F. Strube, C. Bauer, B. Rosemann, V. Altstädt

Application of Amine-Functionalized Cellulose Foam for CO₂ Capture and Storage in the Brewing Industry

Journal of Renewable Materials 6(3), pp. 219-225, 2018

T. Neumeyer, A. Bauernfeind, V. Eigner, C. Mueller, K. Pramberger, V. Altstaedt
Novel epoxy prepreg resins for aircraft interiors based on combinations of halogen-free flame retardants

CEAS Aeronautical Journal 9(1), pp. 235-248, 2018

M. Kropka, M. Muehlbacher, T. Neumeyer, V. Altstaedt
From UD-tape to Final Part – A Comprehensive Approach Towards Thermoplastic Composites

Procedia CIRP 66(1), pp. 96-100, 2017

T. Neumeyer, C. Staudigel, G. Bonotto, V. Altstaedt
Influence of an imidazolium salt on the curing behaviour of an epoxy-based hot-melt prepreg system for non-structural aircraft applications

CEAS Aeronautical Journal 6(1), pp. 31-37, 2015

K. Troeger, R. K. Darka, T. Neumeyer, V. Altstaedt
Tailored benzoxazines as novel resin systems for printed circuit boards in high temperature e-mobility applications

AIP Conference Proceedings 1593, pp. 678–682, 2014

T. Neumeyer, G. Bonotto, J. Kraemer, V. Altstaedt, M. Doering
Fire behaviour and mechanical properties of an epoxy hot-melt resin for aircraft interiors

Composite Interfaces 20(6), pp. 443-455, 2013

R. R. Corsetti, T. Neumeyer, M. May, D. Jandrey, V. Altstaedt, N. S. M. Cardozo
Modeling and estimation of parameters for the curing of an epoxy/amine system

Polymer Testing 32(4), pp. 647-654, 2013

Zeitschriftenbeiträge

K. Schüllner, J. Meuchelböck, B. Wilhelmus, S. Meier, P. Schreier, T. Neumeyer, H. Ruckdäschel
So wird ein Partikelschaum aus ABS-Rezyklat entwickelt

Plastverarbeiter, 74(5), 2023

A. Seefeldt, J. Gensel, T. Neumeyer

Mit 3D-Druck hoch hinaus – Deshalb sind additiv gefertigte lastoptimierte Kernstrukturen für die Luftfahrt interessant

Plastverarbeiter, 73(6), 2022

M. Mühlbacher, K. Kirchmeier, T. Neumeyer, V. Altstädt

Wie nachhaltig ist Leichtbau wirklich? – Die Umweltwirkungen der Produktion von FVK-Bauteilen bewerten

Kunststoffe 112(2), 2022

J. Gensel, S. Kastl, T. Neumeyer

Additive Fertigung transparenter Bauteile – 3D-Druck als Wunscherfüller

Plastverarbeiter, 72(9), 2021

M. Loegel, L. Bartel, T. Neumeyer, M. Mühlbacher, C. Cornejo Runge, A. Gebhardt

Holistic optimization of the high-speed tape lay-up process using a digital twin

JEC Magazine No. 142, 58(5), 2021

V. Brendel, C. Neuber, M. Dippold, J. Gensel, T. Neumeyer, H.-W. Schmidt, V. Altstädt

Polypropylen XXL – Large Area Additive Manufacturing für individuelle Monomateriallösungen

Plastverarbeiter, 72(3), 2021

R. Weber, M. Weinbrenner, P. Schreier, T. Neumeyer

Mehr als nur heiße Luft – Partikelschäume sind ideale Leichtbauwerkstoffe

Industrieanzeiger, 141(27), 2019

T. Standau, P. Schreier, J. Görl, M. Mühlbacher, T. Neumeyer, V. Altstädt

Partikelschäume – neue Materialien und Verarbeitungstechnologien eröffnen neue Anwendungen

DIALOG, DGM Magazin, Ausgabe 2, 2018

K. Wunderlich, T. Neumeyer, V. Altstädt

Abspecken durch Thermoplastschaumspritzgießen

GAK Magazin 70(6), 2017

M. Kropka, K. Selvaraj, T. Neumeyer, V. Altstädt

Vom UD-Tape zum thermoplastischen Faserverbundprodukt

Lightweight Design 10(3), 2017

M. Kropka, K. Selvaraj, T. Neumeyer, V. Altstädt

Production of UD-Tape Based Thermoplastic Composite Parts

Lightweight Design worldwide 10(3), 2017

N. Niessner, V. Altstädt, T. Neumeyer

Luftig leichte Styrol-Kunststoffe

Kunststoffe 107(2), 2017

N. Niessner, V. Altstädt, T. Neumeyer

Acrylnitril-Butadien-Styrol

Kunststoffe 106(10), 2016

N. Niessner, V. Altstädt, T. Neumeyer

Acrylonitrile Butadiene Styrene

Kunststoffe international 106(10), 2016

M. Kropka, M. Mühlbacher, T. Neumeyer, V. Altstädt

Faserverbundbauteile im Minutentakt

Kunststoffe 106(10), 2016

V. Altstädt, T. Neumeyer, T. Standau, M. Fafara

Temperaturbeständigkeit

K-Magazin 2(4), 2016

M. Mühlbacher, C. Hornfeck, T. Neumeyer, V. Altstädt
Thermoplastische Sandwichstrukturen aus Luftfahrtmaterialien
Lightweight Design 9(4), 2016

C. Baumgart, B. Höll, T. Neumeyer, V. Altstädt
Ein ungleiches Paar hält zusammen
Kunststoffe 106(8), 2016

C. Baumgart, B. Höll, T. Neumeyer, V. Altstädt
An Incompatible Pair Stick Together
Kunststoffe international 106(8), 2016

R. Zeiler, G. Bakis, S. Forero, J. Benra, T. Neumeyer, V. Altstädt
Kleiner Beitrag, starke Wirkung
Kunststoffe 106(2), 2016

P. Schreier, M. Mühlbacher, M. Fafara, T. Neumeyer, V. Altstädt
Multi-Materialsysteme - Sandwich mit thermoplastischen Partikelschäumen
emobility tec 6(2), 2016

P. Schreier, M. Mühlbacher, M. Fafara, T. Neumeyer, V. Altstädt
Sandwich mit thermoplastischen Partikelschäumen: Multi-Materialsysteme im Automobil
Plastverarbeiter 67(2), 2016

E. Njuhovic, T. Neumeyer, S. Glöde, V. Altstädt
Eine Frage der Haftung
Kunststoffe 104(7), 2014

E. Njuhovic, T. Neumeyer, S. Glöde, V. Altstädt
A Question of Adhesion
Kunststoffe international 104(7), 2014

T. Neumeyer, M. Kempf, J. Krämer, F. Wolff-Fabris, V. Altstädt
Duromere Matrixsysteme: Leichter in der Luft, im Wind und auf der Straße
Kunststoffe 102(11), 2012

T. Neumeyer, M. Kempf, J. Krämer, F. Wolff-Fabris, V. Altstädt
Thermoset Matrix Systems: Lighter in the Air, in the Wind and on the Road
Kunststoffe international 102(11), 2012

T. Neumeyer
Gemeinsam für den Patienten - Tagungsbericht
Kunststoffe 100(5), 2010

Vorträge auf internationalen Konferenzen und Tagungen

T. Neumeyer, C. Weigl, J. Gensel, H. Ruckdäschel
Selective laser sintering on the way to industrial application – A holistic approach for a digitized demonstration factory
38th International Conference of the Polymer Processing Society, PPS-38
St. Gallen, Switzerland (2023)

M. Muehlbacher, C. Cornejo Runge, T. Neumeyer, V. Altstaedt
Aircraft structural parts based on thermoplastic UD-Tapes – A comprehensive processing approach including tape laying and injection overmolding using the example of an aircraft door outer skin
SAMPE Europe Conference
Hamburg, Germany (2022)

R. R. Enderle, M. Mühlbacher, C. Cornejo-Runge, T. Neumeyer, A. S. Herrmann
Experimental investigation and numerical modelling of effects of overmoulded rib foot shape, boundary conditions and residual stresses on the apparent joint strength
5th Hybrid Materials and Structures 2022 - International Conference on Hybrid Materials
Leoben, Austria (2022)
ISBN 978-3-88355-426-6

T. Neumeyer, R. Weber
Polystyrene in a circular economy – a systematic life cycle assessment of different recycling technologies
36th International Conference of the Polymer Processing Society, PPS-36
Montréal, Canada (2021)

A. Seefeldt, M. Dippold, J. Gensel, T. Neumeyer, V. Altstaedt
Direct printing of high-performance thermoplastic connection and stiffening elements by fused filament fabrication
36th International Conference in Polymer Processing Society, PPS-36
Montréal, Canada (2021)

T. Neumeyer, F. Habla, M. Kropka, M. Mühlbacher, V. Altstädt
Tailoring lightweight solutions based on UD tapes
4th Annual Automotive Plastics & Advanced Composites Summit
Freising, Germany (2019)

P. Schreier, T. Neumeyer, J. Knoechel, M. Muehlbacher, V. Altstaedt
Thermoplastic Sandwich Structures with Bead Foam Core – Novel Processing Approaches
12th International Conference on Sandwich Structures – ICSS-12
Lausanne, Switzerland (2018)

J. Knoechel, M. Kropka, T. Neumeyer, V. Altstaedt
Resistance of 3D-printed polymer structures against fatigue crack growth
6th International Conference Integrity-Reliability-Failure
Lisbon, Portugal (2018)

K. Wunderlich, T. Neumeyer, C. Baumgart, V. Altstaedt
Influence of Low Heat Conductive Inserts on Morphology of Foam Injection Molded Parts
34th International Conference of the Polymer Processing Society
Taipei, Taiwan (2018)

J. Gensel, M. Roder, B. Reineke, M. Löhner, P. Schreier, T. Neumeyer, V. Altstädt
Microwave Processing of Polymer Bead Foams
34th International Conference of the Polymer Processing Society
Taipei, Taiwan (2018)

T. Neumeyer, J.F. Knoechel, M. Muehlbacher, T. Kroeger, P. Schreier, V. Altstaedt
Thermoplastic Sandwich Structures – Processing Approaches Towards Automotive Serial Production
21st International Conference on Composite Materials (ICCM-21)
Xi'an, China (2017)

M. Kropka, T. Neumeyer, V. Altstaedt
Effect of the pre-consolidation process on quality and mechanical properties of mono- and multi-material laminates based on thermoplastic UD-tapes
21st International Conference on Composite Materials (ICCM-21)
Xi'an, China (2017)

M. Kropka, M. Muehlbacher, T. Neumeyer, V. Altstaedt
From UD-tape to final part – a comprehensive approach towards thermoplastic composites
1st CIRP Conference on Composite Materials Parts Manufacturing
Karlsruhe, Germany (2017)

Y. Zhu, J. Gensel, L. Helmlinger, T. Neumeyer, S. Thäter, F. Strube, C. Bauer, B. Rosemann, V. Altstädt

Application of Amine-functionalized Cellulose Foam for CO₂ Capture and Storage in Brewery Industry

4th International Conference on Biobased Materials and Composites
Nantes, France (2017)

M. Muehlbacher, T. Neumeyer, V. Altstaedt

Full-thermoplastic sandwich structures for aircraft interiors

ECCM-17

Munich, Germany (2016)

M. Kropka, M. Muehlbacher, T. Neumeyer, V. Altstaedt

Thermoplastic multi-material laminates based on load-specific tape lay-up designs

ECCM-17

Munich, Germany (2016)

B. dos Santos, R. R. Corsetti, T. Neumeyer, V. Altstaedt, N. S. M. Cardozo

Effect of the heating rate on the curing of an epoxy system

The Brazilian Congress of Chemical Engineering – COBEQ 2016

Fortaleza, Brazil (2016)

T. Neumeyer, E. Njuhovic, M. Mühlbacher, M. Kothmann, V. Altstaedt

Lightweight fibre reinforced composites – Current developments towards serial production

1st International Forum on Ultra-lightweight and High-strength Advanced Engineering Materials and Industrialization

Guangzhou, China (2014)

A. Rios de Anda, T. Neumeyer, H. Lengsfeld, T. Rademacker, V. Altstaedt

Recycled carbon-fiber fleeces as a green alternative for reinforcing in-plane mechanical properties of thermoset composites

ECCM-16

Seville, Spain (2014)

ISBN 978-88-88785-33-2

K. Troeger, R. Khanpour Darka, T. Neumeyer, V. Altstaedt

Tailored benzoxazines as novel resin systems for printed circuit boards in high temperature e-mobility applications

29th International Conference in Polymer Processing Society, PPS-29

Nuremberg (2013)

T. Neumeyer, G. Bonotto, J. Krämer, V. Altstaedt, M. Döring

Fire behaviour and mechanical properties of an epoxy hot-melt resin for aircraft interiors

ECCM-15

Venice, Italy (2012)

ISBN 84-616-9798-7

Vorträge auf nationalen Konferenzen und Tagungen

M. Muehlbacher, T. Neumeyer, V. Altstaedt

Aircraft structural parts based on thermoplastic UD-Tapes – A comprehensive processing approach including tape laying and injection overmolding using the example of an aircraft door outer skin

71st German Aerospace Congress (DLRK)

Dresden (2022)

T. Neumeyer, M. Kropka, J. Joneck, M. Loegel, K. Kirchmeier, M. Mühlbacher, V. Altstädt

Functionalized Oriented Composites – FORCE: A holistic approach from UD-tape to final part

10. Landshuter Leichtbau Colloquium – LLC 2021

Landshut (2021)

ISBN 978-3-9818439-5-8

T. Neumeyer, P. Schreier, M. Mühlbacher, V. Altstädt

Thermoplastic Sandwich Structures with Bead Foam Cores – Novel Processing Approaches
Composite Sandwich Conference
Halle a. d. Saale (2020)

F. Habla, M. Kropka, M. Mühlbacher, T. Neumeyer, V. Altstädt

Maßgeschneiderte Hybridlaminat aus UD-Tapes – Der Weg zu kosteneffizienten und lastgerechten Thermoplast-Bauteilen
22. Symposium Verbundwerkstoffe und Werkstoffverbunde
Kaiserslautern (2019)

T. Neumeyer

Leichtbau mit Schäumen und Verbundwerkstoffen – Aktuelle Trends und Entwicklungen
FSK-Fachtagung Schaumkunststoffe 2018
Papenburg (2018)

J. Knöchel, T. Neumeyer, M. Mühlbacher, V. Altstädt

Funktionsintegration in thermoplastische Sandwichstrukturen durch Spritzgießen
8. Landshuter Leichtbau-Colloquium
Landshut (2017)

T. Neumeyer, A. Bauernfeind, V. Eigner, C. Mueller, K. Pramberger, V. Altstaedt

Novel epoxy prepreg resins for aircraft interiors based on combinations of halogen-free flame retardants
64th German Aerospace Congress (DLRK)
Rostock (2015)

T. Neumeyer, C. Staudigel, G. Bonotto, V. Altstädt

Influence of an imidazolium salt on curing behaviour of an epoxy based hot-melt prepreg system for non-structural aircraft applications
62nd German Aerospace Congress (DLRK)
Stuttgart (2013)

Posterbeiträge auf Konferenzen und Tagungen

R. Fachtan, M. Mühlbacher, T. Neumeyer, H. Ruckdäschel

An Optimized Injection Overmolding Process for Enhanced Bonding Strength in Thermoplastic Aircraft Components
6th International Conference & Exhibition on Thermoplastic Composites – ITHEC
Bremen (2022)

J. Goerl, M. Fafara, P. Schreier, T. Neumeyer, V. Altstaedt, J. Vetter, M. Lucht, R. Pfaller

Steamless pre-foaming of expandable polystyrene beads (EPS)
Internationale wissenschaftliche Tagung Polymerwerkstoffe – polymertec 18
Merseburg (2018)

J. Gensel, L. Klug, G. Niemeyer, T. Neumeyer, C. Pawelski, P. Schreier, W. Teubert, U. Wienhold, H. Wörthwein, V. Altstädt

Novel flame-retardant polymer bead foams
Europe Africa Conference 2017 of the Polymer Processing Society (PPS)

K. Wunderlich, T. Neumeyer, V. Altstädt

Influence of Processing Parameters on the Morphology of Co-Injected Foamed Parts
Europe Africa Conference 2017 of the Polymer Processing Society (PPS)
Dresden (2017)

T. Neumeyer, M. May, J. Krämer, V. Altstädt

Influence of the network structure of DGEBA based epoxy resins on their tack
Thermosets
Berlin (2011)