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composites science and technology A. Patra, N. Mitra/Composites Science and Technology 101 (2014) 94-101 95. permeable breather cloth) is primarily assisted through the vacuum alone. Upon complete part wetting, the infusion lines are blocked and is vacuum cured at room temperature for at least 24 h. It should be noted that the resin-system used in vacuum resin

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composites science and technology R. Rypel et al./Composites Science and Technology 89 (2013) 98-109 99. where we introduce the longitudinal fiber strain ϵ_f and the bond intensity T for the debonded part of a fiber defined as the interface shear flow acting on the fiber cross section Fig. 1 $T \hat{A}^{1/4}$...

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composites science and technology 2 A.R. Jones et al./Composites Science and Technology 79 (2013) 1–7. The specimens were cured at room temperature for 24 h and then 24 h at 35 °C. 2.4. Microbond test method After curing, optical images (Fig. 2) were obtained before test-ing in order to measure the embedded length L_e

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composites science and technology Injection moulded all-polypropylene composites composed of polypropylene fibre and polypropylene based thermoplastic elastomer Ákos Kmettya, b, Árpád Tamás Bányai, József Karger-Kocsis, a BME Research Group for Composite Science and Technology, Muegyetem rkp. 3, H-1111 Budapest, Hungary bDepartment of Polymer Engineering, Faculty of Mechanical Engineering, Budapest University of ...

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composites science and technology composites, possess the unique characteristics of multi-directional re-inforcement, improved structural integrity as well as flexible micro-structural designability [32]. Quan et al. have successfully printed some 3D braided, orthogonal and interlock preforms, and composites [33–36]. By using the capabilities of 3D printing technology, 3D ...

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composites science and technology H. Humburg et al./Composites Science and Technology 72 (2012) 1012–1013. force and displacement were recorded by a digital data acquisition system (MTS TestWorks Software). In addition, a digital camera mounted on a tripod was used to capture pictures of the sample

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composites science and technology b Center for Nanoscale Science and Technology, National Institute of Standards and Technology, Gaithersburg, MD, USA ... Composites Science and Technology 133 (2016) 23–32. morphologies to form three dimensional percolating networks to enhance electrical conductivity [19,20]. Further, it has recently

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According to the damage hypothesis made in Ref. [1], the UV/ water flow aging model consists of two consecutive stages including:
Part (A) UV radiation damage formation on polymer

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composites science and technology Composites Science and Technology 135 (2016) 137e145. dispersion difficulties and poor interaction between the polymer matrix and CNTs. Therefore, a key issue for raising the reinforcement of nanofillers includes improving both the homogeneous

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composites science and technology Composites Science and Technology 151 (2017) 1e9. epoxy resin [6]. Norris et al. used elevated temperature evacuation of solder wire or manual extraction of Teiron coated steel wires after composite fabrication to create isolated vascular channels in carbon fiber/epoxy laminates. Pre-mixed epoxy resin was injected

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composites science and technology W.V. Srubar III et al./Composites Science and Technology 72 (2012) 708â€“715 709. where G is the graft percentage (%), V b is the base titrate volume (L), N b is the base normality (0.02 mol/L), V a is the acid titrate volume (L), N a is the acid normality (0.02 mol/L), w mol is the molecular

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composites science and technology CI) magnetic composite film towards the magnetic field and deformation bi-sensor Min Sanga, Sheng Wanga, Mei Liua, Linfeng Baia, Wanquan Jianga, Shouhu Xuanb, Xinglong Gongb, aDepartment of Chemistry, Collaborative Innovation Center of Suzhou Nano Science and Technology, University of Science and Technology of China (USTC), Hefei

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composites science and technology The composite phases could be distinguished on the basis of different frictional characteristics resulting from their different Fig. 1. Schematic illustration of a composite interphase. Adapted from Ref. [1]. V. Cech et al./Composites Science and Technology 83 (2013) 22â€“26 23

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composites science and technology 50 M. Zappalorto et al./Composites Science and Technology 72 (2011) 49â€“55. debonding) to

the initial condition (post debonding) and S is the remotely applied hydrostatic stress which is not supposed to change during the debonding process (see Fig. 1).

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composites science and technology B. Verleye et al./Composites Science and Technology 68 (2008) 2804–2810. Including a second order description of the geometry would not only lead to the geometry modelling problems, but a second order approximation of the boundary would also impose additional numerical stability problems. Although using a first order approx-

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composites science and technology Composites Science and Technology 137 (2016) 60–68. comprised of aromatic alcohols with differing degrees of methoxy substitution based on parent plant material. In this paper, authors use a modified organosolv fractionation process to produce lignin from an emerging bioenergy crop,

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composites science and technology Composites Science and Technology 134 (2016) 115–124. bonded joints to find the shape of the traction-separation law and also studied the effect of adhesive layer thickness [13–19]. An experimental method has been proposed in Refs. [16–18] to determine the relationship between stress and elongation of a thin

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composites science and technology D.M. Correia et al. Composites Science and Technology 172 (2019) 134–142. transferred to open ceramic crucibles using a TGA 6000 Perkin Elmer instrument operating between 32°C to 590°C at a heating rate of 10°C.min⁻¹ under a flowing nitrogen atmosphere. 2.6. Mechanical and electromechanical measurements

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composites science and technology P.N.B. Reis et al./Composites Science and Technology 69 (2009) 154–160. the average plate thickness was 3 mm. The quality control of the plates was by visual inspections in terms of finish surface and void content. The specimens used in the tensile, compressive and fatigue tests

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composites science and technology L. Zhang et al./Composites Science and Technology 110 (2015) 126–131. from tens of nanometers to a few hundreds. Single AgNPs@PDA particle could be distinguished, but the particles had a certain degree of agglomeration. According to the TEM images, Ag

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composites science and technology Hierarchical composites of carbon nanotubes on carbon fiber: Influence of growth condition on fiber tensile properties Qihong Zhanga, c, Jianwei Liua, Ryan Sagerb, Liming Daia, Jeffery Baurc,* a Department of Chemical and Material Engineering, University of Dayton, Dayton, OH 45469, USA b Department of Aerospace Engineering, Texas A&M University, College Station, TX 77843, USA

