

Poster Contributions – Session II – Tuesday March 26, 2024

- II.01 *Effect of temperature on flow-induced crystallization of isotactic polypropylene: a molecular dynamics study*
Sigalas, N., Kraaij, S.A.T. van, Lyulin, A.V.
- II.02 *Molecular modelling of the oxidative degradation in glassy polymers*
Steiakakis, K., Vogiatzis, G., Breemen, L.C.A. van, Hütter, M.
- II.03 *Mechanical identification and modelling of impregnated Nb₃Sn Rutherford cable stacks under compressive loading*
Kong, X., Brem, A., Araujo., D.M., Daly, M., Auchmann, B., Tervoort, T.A.
- II.04 *Fracture response of methacrylate adhesive-bonded glass fiber-reinforced thermoplastic composites at varying temperatures and bond-line thicknesses*
Zivkovic, M., Montesano, J.
- II.05 *Multi-scale virtual-design of nano-architected multilayers materials*
Métro, B., Lamnawar, K., Blal, N.
- II.06 *Evolution of a planar crack perturbed by a rigid inclusion*
Li, C., Kolinski, J.M.
- II.07 *Instabilities in cutting of soft elastomer sheets*
Glukhova, S., Ciccotti, M., Lechenault, F.
- II.08 *Damage quantification of thin films on soft substrate*
Singh, A., Santoprete, R., Luengo, G.S., Creton C., Ciccotti, M.
- II.09 *Bridging chemistry, physics and mechanics: understanding how blades damage chemical bonds in soft materials*
Zhao, D., Cartier, A., Ciccotti, M., Narita, T., Creton, C.
- II.10 *Freezing induced fracture propagation in hydrogels*
Scherer, M., Gerber, D., Style, R.
- II.11 *Nanofilled, ductile and slow curing epoxy systems*
Studer, P., Tervoort, T.A.
- II.12 *Characterizing the fracture properties of the fiber/matrix interface in carbon fiber reinforced composite materials*
Umemura, M.T., Dalmas, F., Reynaud, P., Bikard, J., Long, D., Fantozzi, G.
- II.13 *Mechanical properties and microstructural changes on different formulations of PA11 exposed to hydrogen decompression cycles*
Ramarosaona, M., Castagnet, S., Halm, D., Cayzac, H.-A., Dufaure, N., Papin, P.
- II.14 *Experimental Investigations on the Coupling of Fracture and Micro-Structure Evolution in Natural Rubber*
Zybell, L. Euchler, E., Dammaß, F., Wießner, S., Kästner, M.

- II.15 *Pressurized hydrogen effects on quasi-static fracture behaviour of two filled rubber compounds*
Denora, I., Walter, R., Benoit, G., Kaiser, A., Castagnet, S., Marano, C.
- II.16 *Investigation of the environmental stress-cracking behaviour of polypropylene block-copolymers*
Gerets, B., Engelsing, K., Schlutter, R., Schober, G.
- II.17 *Investigation of the environmental stress-cracking behaviour of polypropylene random-copolymers*
Gerets, B., Engelsing, K., Schlutter, R., Schober, G.
- II.18 *Time-dependent direction of sideways cracks in filled silicone rubber*
Corbiere, A., El Mouaddib, W., Pallares, G., Bérut, A., Ramos, O., Vanel, L.
- II.19 *Effect of irradiation temperature and environment on aging of epoxy resins for superconducting magnets*
Parragh, D.M., Scheuerlein, C., Piccin, R., Ravotti, F., Pezzullo, G., Koettig, T.
- II.20 *Inflatable textile panels for marine noise reduction applications: mechanical characterization and design*
Cavoit, J., Marco, Y., Blès, G., Carrère, N., Le Gall, M., Mell, L.
- II.21 *Effect of high-temperature and acid environment on the fatigue properties of short fiber reinforced polyamides*
Alexis, F., Castagnet, S., Nadot-Martin, C., Havet, P., Robert, G.
- II.22 *Long-term performance of injection moulded isotactic polypropylene under the presence of weld lines for unfilled and glass fibre reinforced grades*
Arriaga, A., Engels, T.A.P., Broek, S.J.J. van den, Govaert, L.E.
- II.23 *Temperature effect on carbon/thermoplastic composite material mechanical properties*
Curbelié, J., Wahl, J.-C., Bois, C.
- II.24 *Compressive mechanical response of ion-conductive polymers in electrolyzers*
Arthurs, C., Kusoglu, A.
- II.25 *Polybenzoxazine vitrimer structural rearrangements and related thermo-mechanical properties through successive reprocessing cycles*
Boulic, V., Abdallah-Boina, D., Staropoli, M., Westermann, S., Verge, P., Schmidt, D., Addiego, F.
- II.26 *Recycling of passenger car tire treads through thermo-mechanical chemical devulcanization*
Cerpentier, R., Roetman, E.C., Heideman, G., Dierkes, W.K., Topp, M.
- II.27 *Implications of nanoparticle physical and chemical interactions on low-light intensity photopolymerization and 3D printing*
Lepcio, P., Korcuskova, M., Sevriugina, V., Zarybnicka, K., Svatik, J., Ondreas, F.
- II.28 *Characterization of inter-layer strength for 3D printing*
Heugten, P.M.H. van, Looijmans, S.F.S.P., Anderson, P.D., Breemen, L.C.A. van

- II.29 *Predicting the effect of process parameters on the intrinsic material properties of PA12 in SLS 3D printing*
Berlo, F.P.A. van, Anderson, P.D., Breemen, L.C.A. van
- II.30 *Granular elastomers for 3D printing applications*
Baur, E., Amstad, E.
- II.31 *MatEx additive manufactured ABS and PLA: experiments and anisotropic model for the infill orientation angle*
Verbeeten, W.M.H., Lorenzo-Banuelos, M.
- II.32 *The micro-structure evolution of isotactic polypropylene during die drawing: an in-situ USAXS experiment*
Lyu, D. Lu, Y., Men, Y.