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NanoBioMatters S.L. - Spain

NBM S L

<http://www.nanobiomatters.com>

The company NanoBioMatters is a technology based startup devoted to the development and production of tailor made natural and synthetic nanoadditives for plastic materials and biomaterials for today's and tomorrow's industrial applications. NanoBioMatters is pursuing different markets such as packaging, automotive, flame-retardant engineering resins and performance coatings. Actually its plant in Valencia (Spain) can produce 100 Tn of nanoclay annually, though infrastructure is in place to allow it to ramp up to 2500 Tn/year if the demand is there. The current products include e.g. cost-effective functional clays and bioclays, modified clays to enhance mechanical, barrier and fire resistance properties of PE, PP, PET, PA, EVOH, PK, PLA, PCL, PHB, proteins and polysaccharides, nanoclay based masterbatches, and R&D to develop specific tailor made nanocomposite and blend technologies in partnership with customers. All nanoadditives are modified specifically for each polymer matrix using substances approved for food contact. In addition the NBM scientific and technical staff have years of experience with layered nanoparticles which we bring to the customer. The experience and expertise in nanoparticles for packaging applications will be shared in EOL.

Key person at NBM S.L

Eugenia Nunez. Education and experience: Present Nanobiomatters S.L, Paterna (Spain), R&D Coordinator; 2006-2007: Max Planck Institute for Polymer Research, Dept. of Physics of Polymers, Mainz (Germany), Post-doc researcher Supervisors: Prof. Georg Fytas and Prof. Werner Steffen, 2001- 2006: KTH, Dept. of Fiber and Polymer Technology, Stockholm (Sweden), PhD student in Polymer Materials Supervisor: Prof. Ulf W. Gedde; Licentiate Thesis defended on December 2004, Licentiate thesis title: "Crystallisation of Star Polyesters with poly(ϵ -caprolactone) Arms. Approaching the Problem of Early Stages in Polymer Crystallisation", Doctoral thesis defended on June 2006, Doctoral thesis title: "Crystallization in molecularly constrained polymer structures Approaching the unsolved problems in polymer crystallization"; 2001 KTH, Dept of Fiber and Polymer Technology, Stockholm (Sweden), Master thesis student, Master thesis title: "Determination of Antioxidant Concentration in Crosslinked Polydimethylsiloxane. Study of the Antioxidants Effectiveness Against PDMS Surface Oxidation"; 1995-2001. Universidad Politécnic de Valencia, Valencia (Spain), M.Sc. in Chemical Engineering. Collaborations: Oct - Dec 2005: University of Twente, Faculty of Science and Technology, Materials Science and Technology of Polymers, Enschede (The Netherlands), Guest researcher, Supervisor Prof Julius Vancso. Teaching Experience 2001-2006: Teaching assistant in Mechanical Properties of Polymers and Polymer Physics, undergraduate level. Experimental skills: General laboratory skills, Polymer processing, Transmission electron microscopy (TEM) (responsible of the Department's instrument at KTH), Optical microscopy (responsible of the Department's instrument), Evaporation of metals under vacuum (responsible of the Department's instrument at KTH), Atomic force microscopy (AFM), Differential scanning calorimetry (DSC) Scanning electron microscopy (SEM), Dynamic mechanical thermal analysis (DMTA), X-ray diffractometry (WAXS, SAXS), Light scattering (SALS, BLS) UV spectrometry, High performance liquid chromatography (HPLC), Tensile testing.

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