

**PPS-35****35<sup>th</sup> INTERNATIONAL CONFERENCE  
of THE POLYMER PROCESSING SOCIETY**

26 - 30 MAY 2019 • Çeşme-İzmir / TURKEY



POLYMER PROCESSING SOCIETY

Sabancı  
Üniversitesi

Paper ID	Title	Presenter	Country
S02-175	A comparison study of high shear force and compatibilizer on the phase morphologies and properties of polypropylene/polylactide (PP/PLA) blends	Fu, Qiang	China
S02-356	Optimizations in Extruded PVC window profile designs to gain higher Thermal Efficiency for Passive House Component	kale, didem	Turkey
S02-457	Investigating Viscous Flows for Rubber(EPDM) with the Experimental Test Equipments	Turkistanli, Tarik	Turkey
S03-270	Thermo-Responsive Nanofibers based on PNVCL for Biomedical Applications	Zandi, Mojgan	Iran
S03-341	Strain-induced crystallization behavior of Poly (ethylene terephthalate)(PET) synthesized with a titanium-based catalyst in the high speed melt spinning	Hahm, Wan-Gyu	SouthKorea
S03-399	Island-in-the-Sea Type Polypropylene (PP)/High Molecular Weight Poly(ethylene terephthalate) Bicomponent Fibers for High Strength Composite Materials	Hahm, Wan-Gyu	Korea
S03-80	Optimization of Elongation rate in Wet-spinning process of Polyimide with Temperature Conditions	Park, No Hyung	Korea
S04-136	Enhanced fracture energy during deformation through the construction of an alternating multilayered structure for polyolefin blends	Deng, Hua	China
S04-138	Adhesion strength according to metal surface treatment in metal insert molded specimen	Lyu, Min-Young	SouthKorea
S04-15	Intelligent parameter optimization of injection molding process	Nian, Shih-Chih	Taiwan
S04-176	Enhanced heat resistance and mechanical properties of stereocomplex-type polylactide by constructing double melting peaks in the nascent powder	Bai, Hongwei	China
S04-229	Porous Ceramic Structures for Medical Applications via Powder Injection Molding	Huba, Jakub	Czech
S04-62	Experimental study on the effect of local microstructures on the shrinkage distribution in injection molded product	Park, Jang Min	SouthKorea
S04-83	Effect of flow rate and melt temperature on film thickness distribution in film insert injection molding process	Lee, Bong-Kee	SouthKorea
S05-232	Development of a TPO recycled from exterior painted trim components in automotive	Özkoç, Guralp	Turkey
S05-240	Investigation of the effect of TAIC loading level on the properties of LLDPE/PRX	Ozkoc, Guralp	Turkey
S05-241	Investigation of mechanical, thermal and rheological properties of cross-linked LDPE, LLDPE-C6 and LLDPE-C8 blends containing polybutadiene as a coagent	Ozkoc, Guralp	Turkey

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Paper ID	Title	Presenter	Country
S05-433	Waste Cellulose Fiber (WCF) Reinforced Thermoplastic Polyurethane (TPU)	Citak, Mehmet Kerem	Turkey
S05-459	Low Density, High Modulus Polypropylene Wood Composites Prepared by using Thermo Kinetic Mixer	Giriskan, Cagla	Turkey
S05-460	Interfacial Stereocomplex Crystallite by Reactive Blending: Simultaneous Compatibilization and Nucleation Effects on the Immiscible Polymer Blends	Wang, Hengti	China
S06-11	Isomerization of n-butane on promoted tungstated zirconia	Mohamed Seghir, Zahira	Algeria
S06-205	Introducing a single stage in-situ fibrillation of PA, PET, & PBT within PLA matrix	Nofar, M.Reza	Turkey
S06-242	Orientation in LLDPE cast films manufactured under different processing parameters	Bayazian, Hoda	Germany
S06-65	Influence of nucleating agents on crystal structure and properties of polypropylene random copolymer	Xu, Meng	China
S06-88	Effect of annealing-induced microstructure on the photo-oxidation behavior of isotactic polypropylene	Li, GuangXian	China
S07-247	Study of morphology and melt rheological behaviour of EPDM rubber/EVA blend system	Katbab, Ali	Iran
S07-320	Microstructure and Mechanical Properties of PA66/PP Blends Compatibilized by Electron Beam Irradiation	Guo, Dan	China
S07-343	Effect of Compatibilizer EMA-GMA on Rheological Behavior and Mechanical Property of PPC/PBAT Blends	Jiang, Guo	China
S07-359	Mechanical, Thermal and Flame Retardancy Properties of Polycarbonate Recycled Poly(ethylene terephthalate) Blends in the Presence of Compatibilizer	Kovanci, Ceren	Turkey
S07-389	Influence of Reactive Melt Mixing on Mechanical Behavior of Chain Extended PLLA/Thermoplastic Polyurethane Blends	Yousefzade, Omid	Iran
S08-126	Development of Carbon Fiber Reinforced Composites with Molecular Weight Controlled Polyimides	Park, No-Hyung	SouthKorea
S08-156	Calcium filled bacterial cellulose based composite hydrogel for bone tissue engineering: Optical microscopy and bone marker analysis	Saha, Nabanita	Czech
S08-16	Oxygen Barrier, Free Volume and Blending Properties of Fully Bio-based Polyamide 11/Poly(vinyl alcohol) blends	Yeh, Jen-taut	Taiwan
S08-17	Sodium Hexametaphosphate/Glutaraldehyde Modified Thermoplastic Starch Foams Prepared with the Aid of Supercritical Carbon Dioxide	Yeh, Jen-taut	Taiwan
S08-174	Hydrated Aramid Nanofiber Network Enhanced Flexible Expanded Graphite Films towards High EMI Shielding and Thermal Properties	Fu, Qiang	China
S08-180	Improvements in Multifunctional Properties of Epoxy/TiO <sub>2</sub> Composites and Coatings	Caldiklioglu, Almira	Turkey

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Paper ID	Title	Presenter	Country
S08-188	Improved Energy Storage Density of Poly(vinylidene Fluoride) Nanocomposites Based on Surface Hydroxylation of Boron Nitride Nanosheets	Fu, Qiang	China
S08-231	The Adhesion Behaviour of Overmolded PP Based Continuous Glass Fiber Composite Sheets and PP Compounds	Özkoç, Güralp	Turkey
S08-309	Viscoelastic and Dielectric Characterization of Carbon Nanotube/ Polymer Nanocomposites in Presence of Asphaltenes	Sundararaj, Uttandaraman	Canada
S08-323	A fast method to indicate the wettability of the unidirectional carbon fibers in composites	Vatan, Ekrem	Turkey
S08-34	characterization and thermal conductivity of cellulose based composite xerogels	RBIHI, Sara	Morocco
S08-35	Characterization of hybrid materials based a biopolymer with metallic fillers	Bakkardouch, Fatima Ezzahra	Morocco
S08-351	Production and Characterization of Bioglass Reinforced PMMA For Artificial Bone Cement	Çelebi, Hande	Turkey
S08-364	Recovery of lithium from geothermal brines using electrospun embedded ion-imprinted polymeric nanoparticles	Demir, Mustafa	Turkey
S08-70	Fire-resistant EVA composites achieved by ceramifiable and foamable technology	Wang, Tingwei	China
S08-71	Evaluation of Mechanical Properties of Carbon Fiber Reinforced Polyphenylene Sulfide Composite	Chen, Ren-Haw	Taiwan
S08-86	Influence of Screw Configuration in Twin Screw Extruder on the Dynamic Viscoelastic Properties of Hemp Fiber Reinforced Plant-Derived PA1010 Biomass Composites in Molten State	Nishitani, Yosuke	Japan
S08-96	Polydopamine particles as multifunctional fillers for isotactic polypropylene	Huang, Yajiang	China
S08-97	Synthesis and characterization of polyimide-modified carbon nanotube	Yoon, Seulki	SouthKorea
S09-130	The optimization of impregnation process for adjusting the restoration time of acryl-polyurethane foam composites	Park, No-hyung	SouthKorea
S09-20	Characterization of mechanical and thermal properties of PLA/blowing agents composites	Garbacz, Tomasz	Poland
S09-212	PERFORMANCE EFFECT OF NANOCRYSTALLINE CELLULOSE- MONTMORILLONITE NANOCCLAY MIXTURE ON POLYURETHANE FOAM	Çanakçı, Cahit	Turkey
S09-221	Study of Microcell Shrinkage Behavior and Shrinkage Mechanism of Thermoplastic Polyurethane Supercritical CO <sub>2</sub> Foaming	Yang, Qi	China
S09-24	The potential use of expanded polystyrene (EPS) in the Benitaka grapes packaging	MACHADO, RICARDO	Brazil
S09-358	Combining supercritical foaming and polymer leaching to obtain fibrillated and highly interconnected porous polymer scaffolds	Jiang, Jing	China
S09-369	CO <sub>2</sub> foam stability using polymeric surfactants and water soluble polymers	Kamal, Muhammad Shahzad	SaudiArabia

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Paper ID	Title	Presenter	Country
S09-382	Studies on Surface modified Nanofibrillated Cellulose based Biofoams and Evaluation of Foam Properties	PURKAYASTHA, SRIJITA	India
S09-405	Polyurethane/Halloysite Nanocomposite Rigid Foams: Flame Retardancy and Insulation Properties	Anil, Deniz	Turkey
S10-120	Influence of chemical structure on rheological behavior of polyamide nanocomposites	Becker, Daniela	Brazil
S10-123	Effect of titanium dioxide and boron nitride simultaneous addition in PCL/PLA on the nanoparticle selective localization	Becker, Daniela	Brazil
S10-145	Evaluation of Mechanical and Morphology Properties of Halloysite Nanotubes Reinforced Thermoplastic Elastomer	ONER, TUGCE	Turkey
S10-146	Incorporation of Boron Methacrylate Monomer into 2-EHA Based Copolymer Latexes via Mini-Emulsion Polymerization and Investigation of Pressure-Sensitive Adhesive Properties	Temelkaya Bilgin, Ecem	Turkey
S10-157	Two-Dimensional Structured High Breakdown Strength TiO <sub>2</sub> /PVDF Nanocomposites for Energy Storage	Deng, Hua	China
S10-181	Polystyrene/Boron Nitride Nanotube Composites: Preparation and Characterization	Bayram, Goknur	Turkey
S10-213	Effect of multi-walled carbon nanotubes on morphology and its influence on electrical conductivity of PLLA/EVA/MWCNTs nanocomposites	Garmabi, Hamid	Iran
S10-248	Influence of octyl groups in low density polyethylene/antifog/modified clay nanocomposite for ethylene adsorption as an active packaging	Rangsiwutisak, Nithinai	Thailand
S10-275	Study of rheological behavior and mechanical properties of nano composites based on Thermoplastic poly urethane/polycaprolactone/carbon nanotubes	Nazockdast, Hossein	Iran
S10-307	Properties of PS/Halloysite and PS/Sepiolite Nanocomposites Produced by Melt Blending	Uyanik, Nurseli	Turkey
S10-346	Production and Characterization of Polyethylene/Organoclay Nanocomposite Films	GULER, CEREN	Turkey
S10-357	Inorganic Lead Halide Perovskites/Polymer Composites for WLED Applications	Demir, Mustafa	Turkey
S10-360	Cellulose Nanocrystal Incorporated Nanocomposites	Nofar, Mohammadreza	Turkey
S10-398	Effect of Clay Surface Treatment on Gas Permeability and Mechanical Properties of LDPE / Clay Films	Kim, Jeong Cheol	SouthKorea
S10-43	Polypropylene-Spray Dried and Silane Treated Nanofibrillated Cellulose Composites	TABAK, CEREN	Turkey
S10-434	Effects of organo-modifier on structural and mechanical properties of PA6/AES/OMMT/MMA-MA nanocomposites	Pessan, Luiz	Brazil
S10-435	Combined effects of mineral fillers and solvent on the electrical conductivity of epoxy/carbon nanotubes nanocomposites	Pessan, Luiz	Brazil

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Paper ID	Title	Presenter	Country
S10-436	Graphene nanoplatelet reinforced polymer nanocomposites: Effect of graphene nano-plate type and content	Demirtas, Emre	Turkey
S11-144	Effect of the chain transfer agent on pressure-sensitive adhesive performance of butyl acrylate based latexes and determination of odor level caused by sulfur derivative compound	Temelkaya Bilgin, Ecem	Turkey
S11-230	Obtaining black electrochromic materials by copolymerization of EDOT and star shaped carbazole derivatives	GUZEL, MERVE	Turkey
S11-384	Development of New Inhibitor for Antimony Sulfide (Stibnite) Scale In Geothermal Systems	Karaburun, Emre	Turkey
S11-437	Preparation of Polysulfone Based Thermally Induced Shape Memory Polymers	Unal, Aysecan	Turkey
S11-479	Solvent-based Recycling Process for Polypropylene Products	Kizildag, N.	Turkey
S12-193	Structural Analysis of fiber- reinforced polymer Composites electrical Poles – An Uruguayan Study.	Raimonda, Pablo	Uruguay
S12-233	Polymer Sealing by Heat Transfer Modelling	De Santis, Felice	Austria
S14-206	HDPE/PP/PS Compatibilized by Friedel-Crafts Alkylation	Pinheiro, Luís	Brazil
S15-117	The Design and Testing of a Poly(carboxylate ether)-based Viscosity Modifier for Ternary Blends of Ordinary Portland Cement, Calcined Clay, and Limestone	Ozhan, Aleyna	Turkey
S15-118	Poly(carboxylate ether)-based Superplasticizer Achieves Workability Retention in Calcium Aluminate Cement	Kayalan, Cemre	Turkey
S15-178	Rheological Behavior of Xanthan-based Hydrogels Crosslinked with bi-Functional/tetra-Functional Crosslinker	Azizi Saadatlou, Ghazaleh	Iran
S15-465	Using of Screw Type Capillary Rheometer for TPE Characterization	Gunindi, Eylul	Turkey
S15-8	Synthesis of novel polymer nanocomposite for water-based drilling fluids	Kamal, Muhammad Shahzad	SaudiArabia
S16-244	Evaluation of adhesion between polyphenylene sulfide (PPS) fibers and nitrile butadiene rubber: effect of surface activation and vulcanization temperature	Tahir, Muhammad	Germany
S16-266	ESSENTIAL OIL LOADED ANTIMICROBIAL THERMOPLASTIC ELASTOMERS	Pamukogullari, Beste	Turkey
S16-274	The effects of different POSS types on the properties of NR/BR elastomer blends	Özkoç, Güralp	Turkey
S16-340	Thermal adhesive properties between thermoplastic polyamide elastomers and other polymers	Maeda, Shuichi	Japan
S16-391	Effect of AC Corona Discharge on Surface Potential and Hydrophobic Properties of Silicone Rubber	BELHITECHE, El Hadi	Algeria
S16-438	The Assessment of Elastomers in Machine Direction Oriented Breathable Hygiene Films for Strengthening Machine Direction Tear Performance	Ceper, Tolga	Turkey
S16-439	The Use of Autooxidised Flaxseed Oil in EPDM Compound Mixtures Instead of Conventional Petroleum Based Oils	Yazgan, Ali	Turkey

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Paper ID	Title	Presenter	Country
S17-116	A Particle-Specific Design of Additives to Realize High Purity Inks of Iron Oxide for Extrusion-Based Printing	Gunay, Ece	Turkey
S17-137	Cross-section morphology of material extrusion type 3D printing manufactured articles	Lyu, Min-Young	SouthKorea
S17-353	3D Printable Thermal-Energy-Storage Crystalline Gels Using Mask-Projection Stereolithography	Gong, Jin	Japan
S17-36	Characteristics of Poly Ether Imide Powder for SLS 3-D Printing	Kang, Ho Jong	SouthKorea
S18-440	Proses Optimization and Characterization of Performance Additives of Nonwoven in Hygiene Industry	Kemaloglu Dogan, Sebnem	Turkey
S19-379	Crystalline Gel Fibers via UV Reactive Electrospinning	Takahashi, Kohei	Japan
S21-185	Sustainable Composites from Poly(Lactic Acid) and Coffee/Tea Waste	Mocan, Merve	Turkey
S21-186	Preparation and Mechanical Properties of Poly(Lactic Acid) - Cotton Gin Waste Composites	Kaymakçı, Orkun	Turkey
S21-209	Mechanical, thermal, rheological and morphological properties of poly(lactic acid)/ butanol-algae oil esters	Kodal, Mehmet	Turkey
S21-388	Biodegradation studies of polymeric compounds of polyolefins modified by cocoa residues flour	Finocchio, Henrique	Brazil
S21-441	Partially Biodegradable Thermoplastic Polyurethane (TPU)/ Polylactic Acid (PLA) Blends with Improved Impact Resistance	Cetin, Fatma	Turkey
S21-77	A route to fully wine based plastics: synthesis, stabilization and compounding of poly(3-hydroxybutyrate) using wine wastes as substrate, antioxidant and fillers	Messori, Massimo	Italy
S22-250	Optoelectronic-Active Hybrid Polymers for Next Generation Display Applications	Kung, Yu-Ruei	Taiwan
S22-40	Shape Memory Properties of Multilayer PLA-TPU Biocomposites	Ozkoc, Guralp	Turkey

**POSTER PRESENTATION SCHEDULE**

28th May 2019, Tuesday

Poster Area/Radisson Blu Resort &amp; Spa