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Influence of chain extender on mechanical, thermal and morphological properties of blown films of PLA/PBAT blends

DOI: 10.1016/j.polymertesting.2015.02.005
Polymer Testing, 2015, 43, 27-37.

Source: <https://exaly.com/paper-pdf/61783854/citation-report.pdf>

Version: 2024-04-27

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#	Paper	IF	Citations
251	Influence of chain extender on thermal properties and melt flow index of stereocomplex PLA. <i>Polymer Testing</i> , 2015 , 45, 52-57	4.5	34
250	Super toughened biodegradable polylactide blends with non-linear copolymer interfacial architecture obtained via facile in-situ reactive compatibilization. <i>Polymer</i> , 2015 , 80, 1-17	3.9	115
249	Synergistic effect of PLABAT/PLA tri-block copolymers with two molecular weights as compatibilizers on the mechanical and rheological properties of PLA/PBAT blends. 2015 , 5, 73842-73849		36
248	Biodegradable PLA/PBAT/Clay Nanocomposites: Morphological, Rheological and Thermomechanical Behavior. 2016 , 4, 258-265		9
247	Reactive modification and compatibilization of poly(lactide) and poly(butylene adipate-co-terephthalate) blends with epoxy functionalized-poly(lactide) for blown film applications. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	35
246	Transparent blown films from poly(lactide) and poly(ethylene-co-vinyl acetate) compounds: Structure and property. 2016 , 129, 328-337		17
245	Synergistic effect of nucleation and compatibilization on the polylactide and poly(butylene adipate-co-terephthalate) blend films. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016 , 34, 1129-1140 ¹⁰	3.5	140
244	Melt grafting of sepiolite nanoclay onto poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by reactive extrusion with multi-functional epoxy-based styrene-acrylic oligomer. <i>European Polymer Journal</i> , 2016 , 84, 693-707	5.2	46
243	Photooxidation aging behavior of PLA/PBAT films with different PBAT contents. 2016 ,		1
242	Green Antibacterial Nanocomposites from Poly(lactide)/Poly(butylene adipate-co-terephthalate)/Nanocrystal Cellulose/Silver Nanohybrids. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6417-6426	8.3	55
241	Mechanical characteristics and thermal behaviours of polylactide blend films: influence of nucleating agent and poly(butylenes adipate-co-terephthalate). 2016 , 45, 333-345		8
240	Multiscale simulation of shear-induced mechanical anisotropy of binary polymer blends. 2016 , 6, 41734-41742		4
239	Modification of poly(propylene carbonate) with chain extender ADR-4368 to improve its thermal, barrier, and mechanical properties. <i>Polymer Testing</i> , 2016 , 54, 301-307	4.5	23
238	Compatibilization of poly(lactic acid)/ethylene-propylene-diene rubber blends by using organic montmorillonite as a compatibilizer. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	11
237	In situ compatibilization of polylactide/thermoplastic polyester elastomer blends using a multifunctional epoxide compound as a processing agent. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	11
236	Influence of incorporation of starch nanoparticles in PBAT/TPS composite films. 2016 , 65, 938-945		48
235	Novel Biodegradable Cast Film from Carbon Dioxide Based Copolymer and Poly(Lactic Acid). 2016 , 24, 23-36		30

234	Designing a novel nanocomposite for bone tissue engineering using electrospun conductive PBAT/polypyrrole as a scaffold to direct nanohydroxyapatite electrodeposition. 2016 , 6, 32615-32623		44
233	Solution blow spinning: parameters optimization and effects on the properties of nanofibers from poly(lactic acid)/dimethyl carbonate solutions. 2016 , 51, 4627-4638		48
232	Toughening of Polylactic Acid: An Overview of Research Progress. 2016 , 55, 1623-1652		56
231	Nanoengineered Eggshell-Silver Tailored Copolyester Polymer Blend Film with Antimicrobial Properties. 2017 , 65, 1967-1976		38
230	Poly(l-lactide) Materials with Balanced Mechanical Properties Prepared by Blending with PEG-mb-PPA Multiblock Copolymers. 2017 , 56, 2773-2782		10
229	Plasticization effect of epoxidized cottonseed oil (ECSO) on poly(lactic acid). 2017 , 104, 278-286		41
228	Plasticizer effect on melt blending of polylactide stereocomplex. 2017 , 17, 409-416		8
227	Application of β -Cyclodextrin/2-Nonanone Inclusion Complex as Active Agent to Design of Antimicrobial Packaging Films for Control of <i>Botrytis cinerea</i> . 2017 , 10, 1585-1594		24
226	Morphology and properties of biodegradable poly (lactic acid)/poly (butylene adipate-co-terephthalate) blends with different viscosity ratio. <i>Polymer Testing</i> , 2017 , 60, 58-67	4-5	47
225	Melt processing of maleic anhydride grafted poly(lactic acid) and its compatibilizing effect on poly(lactic acid)/poly(butylene adipate-co-terephthalate) blend and their composite. <i>Polymer Science - Series A</i> , 2017 , 59, 384-396	1.2	12
224	In-situ visualization of PLA crystallization and crystal effects on foaming in extrusion. <i>European Polymer Journal</i> , 2017 , 96, 505-519	5-2	23
223	Chemical modification of poly(lactic acid) and its use as matrix in poly(lactic acid) poly(butylene adipate-co-terephthalate) blends. <i>Polymer Testing</i> , 2017 , 63, 542-549	4-5	16
222	Effect of montmorillonite and chain extender on rheological, morphological and biodegradation behavior of PLA/PBAT blends. <i>Polymer Testing</i> , 2017 , 62, 189-195	4-5	33
221	Investigating the effect of multi-functional chain extenders on PLA/PEG copolymer properties. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 494-504	7-9	19
220	Properties of HDPE/Biodegradable Polymer Blends Using Modified Rubber. 2017 , 873, 101-106		1
219	Processing Conditions, Thermal and Mechanical Responses of Stretchable Poly (Lactic Acid)/Poly (Butylene Succinate) Films. 2017 , 10,		35
218	Preparation of Desirable Porous Cell Structure Polylactide/Wood Flour Composite Foams Assisted by Chain Extender. 2017 , 10,		7
217	In situ processing of biocomposites via reactive extrusion. 2017 , 195-246		3

216	Mechanical Properties of Biodegradable Mulch Films Contained Poly(Lactic Acid) and Modified Natural Rubber Prepared by Blown Film Extrusion. 2017 , 873, 117-122		1
215	Physical and Degradation Properties of Polylactic Acid and Thermoplastic Starch Blends [Effect of Citric Acid Treatment on Starch Structures. 2017 , 12,		11
214	A Microrheological Study of Poly(Methyl Methacrylate) Elastomer/Poly(Ethylene Terephthalate) (PMMAelast/PET) Blends. 2017 , 20, 694-700		4
213	Synergistic effects in epoxy functionalized graphene and modified organo-montmorillonite PLA/PBAT blends. 2018 , 157, 65-75		42
212	Structure-property relationships in peroxide-assisted blends of poly(ϵ -caprolactone) and poly(3-hydroxybutyrate). 2018 , 127, 113-122		7
211	Preparation of open-porous stereocomplex PLA/PBAT scaffolds and correlation between their morphology, mechanical behavior, and cell compatibility.. 2018 , 8, 12933-12943		13
210	Poly(lactic acid)/thermoplastic poly(ether)urethane composites synergistically reinforced and toughened with short carbon fibers for three-dimensional printing. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46483	2.9	7
209	The morphological, mechanical, rheological, and thermal properties of PLA/PBAT blown films with chain extender. 2018 , 29, 1706-1717		50
208	The reactive compatibilization effect of copolymer macroactivator for immiscible anionic polyamide 6/polystyrene blends via in situ polymerization. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46302	2.9	6
207	Poly (l-lactide)/PEG-mb-PBAT blends with highly improved toughness and balanced performance. <i>European Polymer Journal</i> , 2018 , 100, 178-186	5.2	8
206	The effect of MDI on the structure and mechanical properties of poly(lactic acid) and poly(butylene adipate--butylene terephthalate) blends.. 2018 , 8, 4610-4623		32
205	Improvement of compatibility and mechanical properties of the poly(lactic acid)/poly(butylene adipate-co-terephthalate) blends and films by reactive extrusion with chain extender. 2018 , 58, 1868-1878		30
204	Tough aliphatic-aromatic copolyester and chicken egg white flexible biopolymer blend with bacteriostatic effects. 2018 , 15, 9-16		11
203	Effect of POE-g-GMA on mechanical, rheological and thermal properties of poly(lactic acid)/poly(propylene carbonate) blends. <i>Polymer Bulletin</i> , 2018 , 75, 5437-5454	2.4	12
202	Influence of functionalized exfoliated reduced graphene oxide nanoparticle localization on mechanical, thermal and electronic properties of nanobiocomposites. <i>European Polymer Journal</i> , 2018 , 102, 130-140	5.2	16
201	Effects of DCP as a free radical producer and HPQM as a biocide on the mechanical properties and antibacterial performance of in situ compatibilized PBS/PLA blends. <i>Polymer Testing</i> , 2018 , 67, 331-341	4.5	16
200	Influence of Biodegradable Poly(butylene carbonate) on Plasticized Polylactide Blown Films. 2018 , 37, 531-541		3
199	Mechanical and thermal properties of volcanic particle filled PLA/PBAT composites. 2018 , 39, E1500-E1511		13

198	Biodegradation in Soil of PLA/PBAT Blends Compatibilized with Chain Extender. 2018 , 26, 330-341		70
197	Effects of surface modification of halloysite nanotubes on the morphology and the thermal and rheological properties of polypropylene/halloysite composites. 2018 , 38, 119-127		7
196	Mechanical recycling simulation of polylactide using a chain extender. 2018 , 37, 2053-2060		13
195	Biodegradable compatibilized polymer blends for packaging applications: A literature review. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45726	2.9	139
194	Fracture behavior of highly toughened poly(lactic acid)/ethylene-co-vinyl acetate blends. 2018 , 18, 153-162		3
193	Preparation, Mechanical and Thermal Properties of PLA/PBAT/EGMA Blends. 2018 , 783, 18-22		1
192	Reactive extrusion of bio-based polymer blends and composites [Current trends and future developments. 2018 , 12, 24-57		72
191	Chain extension of poly (butylene adipate-co-terephthalate) and its microcellular foaming behaviors. 2018 , 157, 143-152		34
190	Toughening of Poly(L-lactide) with Blends of Poly(-caprolactone--L-lactide) in the Presence of Chain Extender. 2018 , 2018, 1294397		5
189	DGEBA-Based Epoxy Resin as Compatibilizer for Biodegradable Poly (lactic acid)/Poly(butylene adipate-co-terephthalate) Blends. 2018 , 381, 1800133		3
188	Contribution of Reactive Extrusion to Technological and Scientific Challenges of Eco-Friendly Circular Economy. 2018 , 45-66		0
187	Preparation of antibacterial poly(lactide)/poly(butylene adipate-co-terephthalate) composite films incorporated with grapefruit seed extract. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 846-852	7.9	45
186	Tuning the compatibility to achieve toughened biobased poly(lactic acid)/poly(butylene terephthalate) blends.. 2018 , 8, 27709-27724		17
185	Poly(lactic acid) (PLA) Based Tear Resistant and Biodegradable Flexible Films by Blown Film Extrusion. 2018 , 11,		54
184	Interface Bond Improvement of Sisal Fibre Reinforced Polylactide Composites with Added Epoxy Oligomer. 2018 , 11,		18
183	Preparation and characterization of polybutylene succinate (PBS) and polybutylene adipate-terephthalate (PBAT) biodegradable blends. 2018 ,		4
182	Polylactic acid blends: The future of green, light and tough. 2018 , 85, 83-127		257
181	Facile Preparation and Characterization of Short-Fiber and Talc Reinforced Poly(Lactic Acid) Hybrid Composite with In Situ Reactive Compatibilizers. 2018 , 11,		10

180	Radiation degradation and stability of PBAT: copolymer of aromatic and aliphatic esters. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46682	2.9	7
179	The properties of chemical cross-linked poly(lactic acid) by bis(tert-butyl dioxy isopropyl) benzene. <i>Polymer Bulletin</i> , 2019 , 76, 575-594	2.4	8
178	Influence of the concentration of copper nanoparticles on the thermo-mechanical and antibacterial properties of nanocomposites based on poly(butylene adipate-co-terephthalate). 2019 , 40, 1870-1882		10
177	Opportunities for PLA and Its Blends in Various Applications. 2019 , 55-81		1
176	Structural evolution and phase transition of uniaxially stretched poly(butylene adipate-co-butylene terephthalate) films as revealed by in situ synchrotron radiation small and wide angle X-ray scattering. 2019 , 21, 118-127		13
175	Strengthening and Toughening of Polylactide/Sisal Fiber Biocomposites via in-situ Reaction with Epoxy-Functionalized Oligomer and Poly (butylene-adipate-terephthalate). <i>Polymers</i> , 2019 , 11,	4.5	5
174	Understanding the effect of chain extender on poly(butylene adipate-co-terephthalate) structure. 2019 , 28, 1035-1044		2
173	Reactive splicing compatibilization of immiscible polymer blends: Compatibilizer synthesis in the melt state and compatibilizer architecture effects. <i>Polymer</i> , 2019 , 185, 121952	3.9	18
172	Flat Die Extruded Biocompatible Poly(Lactic Acid) (PLA)/Poly(Butylene Succinate) (PBS) Based Films. <i>Polymers</i> , 2019 , 11,	4.5	24
171	Projected Changes in Permafrost Active Layer Thickness Over the Qinghai-Tibet Plateau Under Climate Change. 2019 , 55, 7860-7875		17
170	Extrusion blown films of poly(lactic acid) chain-extended with food grade multifunctional epoxies. 2019 , 59, 2211-2219		19
169	Comparative Study of the Antimicrobial Effect of Nanocomposites and Composite Based on Poly(butylene adipate-co-terephthalate) Using Cu and Cu/CuO Nanoparticles and CuSO. 2019 , 14, 158		13
168	Manipulation of Chain Entanglement and Crystal Networks of Biodegradable Poly(butylene adipate--butylene terephthalate) During Film Blowing through the Addition of a Chain Extender: An In Situ Synchrotron Radiation X-ray Scattering Study. 2019 , 20, 3895-3907		8
167	Hydrolytic degradation and lifetime prediction of poly(lactic acid) modified with a multifunctional epoxy-based chain extender. <i>Polymer Testing</i> , 2019 , 80, 106108	4.5	23
166	Effect of Talc on Mechanical Characteristics and Fracture Toughness of Poly(lactic acid)/Poly(butylene succinate) Blend. 2019 , 27, 1821-1827		6
165	Compatibilization of immiscible PLA-based biodegradable polymer blends using amphiphilic di-block copolymers. <i>European Polymer Journal</i> , 2019 , 118, 45-52	5.2	25
164	Effect of poly(2-ethyl-2-oxazoline) and UV irradiation on the melt rheology and mechanical properties of poly(lactic acid). <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48023	2.9	2
163	Microcellular Foaming Behaviors of Poly (Lactic Acid)/Low-Density Polyethylene Blends Induced by Compatibilization Effect. 2019 , 27, 1721-1734		11

162	The application of blocked polyfunctional isocyanate as a cross-linking agent in biodegradable extruded poly(lactic acid) foam. 2019 , 28, 417-424		2
161	Effect of G40 plasticizer on the properties of ternary blends of biodegradable PLA/PBS/G40. 2019 , 26, 1		6
160	Rubber Toughening of Polylactic Acid (PLA) with Poly(butylene adipate-co-terephthalate) (PBAT): Mechanical Properties, Fracture Mechanics and Analysis of Ductile-to-Brittle Behavior while Varying Temperature and Test Speed. <i>European Polymer Journal</i> , 2019 , 115, 125-137	5.2	48
159	Effect of the Joncryl [®] ADR Compatibilizing Agent in Blends of Poly(butylene adipate-co-terephthalate)/Poly(lactic acid). 2019 , 383, 1800035		9
158	Development of Biocomposite Materials from Biodegradable Polymer and Bio-hydroxyapatite Derived from Eggshells for Biomedical Applications. 2019 , 571-581		1
157	Poly (lactic acid) blends: Processing, properties and applications. <i>International Journal of Biological Macromolecules</i> , 2019 , 125, 307-360	7.9	272
156	Preparation and characterization of antistatic packaging for electronic components based on poly(lactic acid)/carbon black composites. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47273	2.9	36
155	Primary recycling of anhydride-cured engineering epoxy using alcohol solvent. 2019 , 59, E111-E119		23
154	Exploring polylactide/poly(butylene adipate-co-terephthalate)/rare earth complexes biodegradable light conversion agricultural films. <i>International Journal of Biological Macromolecules</i> , 2019 , 127, 210-221	7.9	14
153	In Situ Compatibilization of Biopolymer Ternary Blends by Reactive Extrusion with Low-Functionality Epoxy-Based StyreneAcrylic Oligomer. 2019 , 27, 84-96		27
152	The Mechanical, Thermal, Rheological and Morphological Properties of PLA/PBAT Blown Films by Using Bis(tert-butyl dioxo isopropyl) Benzene as Crosslinking Agent. 2019 , 59, E227-E236		17
151	Preharvest use of biodegradable polyester nets added with cinnamon essential oil and the effect on the storage life of tomatoes and the development of <i>Alternaria alternata</i> . 2019 , 245, 65-73		20
150	Effect of surface treatment of cellulose fiber (CF) on durability of PLA/CF bio-composites. 2019 , 203, 95-102		29
149	Polylactide/poly(butylene adipate-co-terephthalate)/rare earth complexes as biodegradable light conversion agricultural films. 2019 , 30, 203-211		19
148	Tailor-Made Bioplastics for Environmentally Friendly Food Packaging: A Methodological Approach to a Challenging Problem. 2020 , 605-616		1
147	Synergistic effect of polylactic acid(PLA) and Poly(butylene succinate-co-adipate) (PBSA) based sustainable, reactive, super toughened eco-composite blown films for flexible packaging applications. <i>Polymer Testing</i> , 2020 , 83, 106130	4.5	21
146	Printability and Critical Insight into Polymer Properties during Direct-Extrusion Based 3D Printing of Medical Grade Polylactide and Copolyesters. 2020 , 21, 388-396		21
145	Rheological, thermal and mechanical properties of biodegradable poly(lactic acid)/poly(butylene adipate-co-terephthalate)/poly(propylene carbonate) polyurethane ternary blown films. <i>Polymer Bulletin</i> , 2020 , 77, 4235-4258	2.4	2

144	Biodegradable Poly(butylene adipate-co-terephthalate) composites reinforced with bio-based nanochitin: Preparation, enhanced mechanical and thermal properties. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48485	2.9	12
143	Reactive compatibilization of polymer blends by coupling agents and interchange catalysts. 2020 , 205-248		4
142	Use of a chain extender as a dispersing agent of the CaCO ₃ into PBAT matrix. 2020 , 54, 1373-1382		9
141	Evaluation of PLA content in PLA/PBAT blends using TGA. <i>Polymer Testing</i> , 2020 , 81, 106211	4.5	23
140	Development of Toughened Blends of Poly(lactic acid) and Poly(butylene adipate-co-terephthalate) for 3D Printing Applications: Compatibilization Methods and Material Performance Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6576-6589	8.3	25
139	Preparation and Characterization of Bio-Based PLA/PBAT and Cinnamon Essential Oil Polymer Fibers and Life-Cycle Assessment from Hydrolytic Degradation. <i>Polymers</i> , 2019 , 12,	4.5	20
138	Electrospinning in the preparation of an electrochemical sensor based on carbon nanotubes. 2020 , 298, 112068		16
137	Micromorphology, mechanical, crystallization and permeability properties analysis of HA/PBAT/PLA (HA, hydroxyapatite; PBAT, poly(butylene adipate-co-butylene terephthalate); PLA, polylactide) degradability packaging films. 2020 , 69, 301-307		10
136	Poly(lactic acid)/Functionalized Silica Hybrids by Reactive Extrusion: Thermal, Rheological, and Degradation Behavior. 2020 , 28, 327-335		2
135	Properties of Biodegradable Films Based on Poly(butylene Succinate) (PBS) and Poly(butylene Adipate-Terephthalate) (PBAT) Blends. <i>Polymers</i> , 2020 , 12,	4.5	28
134	Influence of reactive melt mixing on mechanical behavior of chain extended PLLA/thermoplastic polyurethane blends. 2020 ,		1
133	Study on the 3D printability of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/poly(lactic acid) blends with chain extender using fused filament fabrication. 2020 , 10, 11804		11
132	Uncompatibilized PBAT/PLA Blends: Manufacturability, Miscibility and Properties. 2020 , 13,		17
131	Development of Eco-Sustainable PBAT-Based Blown Films and Performance Analysis for Food Packaging Applications. 2020 , 13,		8
130	Modified Starches on the Properties of Extruded Biodegradable Materials of Starch and Polyvinyl Alcohol. 2020 , 28, 3211-3220		6
129	Biodegradability in aquatic system of thin materials based on chitosan, PBAT and HDPE polymers: Respirometric and physical-chemical analysis. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 1399-1412	7.9	11
128	Antimicrobial Activity of Polymeric Microfibers Containing Coix Lacryma-Jobi Extract. 2020 , 28, 869-876		3
127	Fracture behavior and mechanical, thermal, and rheological properties of biodegradable films extruded by flat die and calender. 2020 , 58, 3264-3282		5

126	Effect of nanofillers characteristics and their selective localization on morphology development and rheological properties of melt-processed polylactide/poly(butylene adipate-co-terephthalate) blend composites. 2020 , 60, 2749-2760		16
125	An insight into different phenomena involved in continuous extrusion foaming of biodegradable poly(lactic acid)/expanded graphite nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2020 , 157, 470-483	7.9	8
124	Correlative analysis between solid-state NMR and morphology for blends of poly(lactic acid) and poly(butylene adipate-co-butylene terephthalate). <i>Polymer</i> , 2020 , 200, 122591	3.9	4
123	Processing induced segregation in PLA/TPS blends: Factors and consequences. 2020 , 14, 768-779		4
122	Thermal, Mechanical and Micromechanical Analysis of PLA/PBAT/POE-g-GMA Extruded Ternary Blends. 2020 , 7,		13
121	Transparent poly(lactic acid) film crystallized by annealing beyond glass transition temperature. 2020 , 27, 1		4
120	Studies on the Uncrosslinked Fraction of PLA/PBAT Blends Modified by Electron Radiation. 2020 , 13,		1
119	Role of lubricant with a plasticizer to change the glass transition temperature as a result improving the mechanical properties of poly(lactic acid) PLLA. <i>Materials Research Express</i> , 2020 , 7, 025306	1.7	5
118	Bilayer biodegradable films prepared by co-extrusion film blowing: Mechanical performance, release kinetics of an antimicrobial agent and hydrolytic degradation. 2020 , 132, 105836		6
117	The Effects of Nanoclay on the Mechanical Properties, Carvacrol Release and Degradation of a PLA/PBAT Blend. 2020 , 13,		14
116	Poly (butylene adipate-co-terephthalate)/magnesium oxide/silver ternary composite biofilms for food packaging application. 2020 , 24, 100487		20
115	Ferulic acid incorporated active films based on poly(lactide) /poly(butylene adipate-co-terephthalate) blend for food packaging. 2020 , 24, 100491		28
114	Novel biobased high toughness PBAT/PEF blends: morphology, thermal properties, crystal structures and mechanical properties. 2020 , 44, 3112-3121		10
113	An overview on synthesis, properties and applications of poly(butylene-adipate-co-terephthalate)PBAT. 2020 , 3, 19-26		77
112	Rapid development of dual porous poly(lactic acid) foam using fused deposition modeling (FDM) 3D printing for medical scaffold application. 2020 , 110, 110693		38
111	Recycling of PLA-based bioplastics: The role of chain-extenders in twin-screw extrusion compounding and cast extrusion of sheets. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49292	2.9	10
110	A comparative study on the reactive compatibilization of melt-processed polyamide 1010/polylactide blends by multi-functionalized additives derived from linseed oil and petroleum. 2020 , 14, 583-604		3
109	Properties of 3D Printable Poly(lactic acid)/Poly(butylene adipate-co-terephthalate) Blends and Nano Talc Composites. 2020 , 2020, 1-16		19

108	Evaluation of the Suitability of Poly(Lactide)/Poly(Butylene-Adipate--Terephthalate) Blown Films for Chilled and Frozen Food Packaging Applications. <i>Polymers</i> , 2020 , 12,	4.5	22
107	Kinetics and mechanisms of Zn ²⁺ release from antimicrobial food packaging based on poly (butylene adipate-co-terephthalate) and zinc oxide nanoparticles. <i>Polymer Bulletin</i> , 2021 , 78, 1021-1040	2.4	8
106	Epoxidized cardanol-based prepolymer as promising biobased compatibilizing agent for PLA/PBAT blends. <i>Polymer Testing</i> , 2021 , 93, 106889	4.5	12
105	Preparation, characterization and properties of biodegradable poly(butylene adipate-co-butylene terephthalate)/thermoplastic poly(propylene carbonate) polyurethane blend films. 2021 , 32, 613-629		1
104	Zinc slow-release systems for maize using biodegradable PBAT nanofibers obtained by solution blow spinning. 2021 , 56, 4896-4908		5
103	Characterization of Microfibers of Carbon Nanotubes Obtained by Electrospinning for Use in Electrochemical Sensor. 2021 , 29, 1551-1565		4
102	Thermal stability enhancement of poly(hydroxybutyrate-co-hydroxyvalerate) through in situ reaction. 2021 , 24, 113-124		2
101	Characterization of PLA/PBSeT Blends Prepared with Various Hexamethylene Diisocyanate Contents. 2021 , 14,		4
100	(Nano)Fibrillar morphology development in biobased poly(butylene succinate-co-adipate)/poly(amide-11) blown films. 2021 , 61, 1324-1337		0
99	Poly(lactic acid) (PLA)/Poly(butylene succinate-co-adipate) (PBSA) Compatibilized Binary Biobased Blends: Melt Fluidity, Morphological, Thermo-Mechanical and Micromechanical Analysis. <i>Polymers</i> , 2021 , 13,	4.5	11
98	PLA binary bioblends with other biopolymers. 2021 , 157-232		1
97	Super toughened and highly ductile PLA/TPU blend systems by in situ reactive interfacial compatibilization using multifunctional epoxy-based chain extender. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50457	2.9	14
96	A Comparison on Biodegradation Behaviour of Polylactic Acid (PLA) Based Blown Films by Incorporating Thermoplasticized Starch (TPS) and Poly (Butylene Succinate-co-Adipate) (PBSA) Biopolymer in Soil. 2021 , 29, 2772-2788		7
95	Microcellular foaming of poly(lactic acid) branched with food-grade chain extenders. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50686	2.9	5
94	High-Velocity Stretching of Renewable Polymer Blends. 2021 , 29, 3509-3524		1
93	Ecovio [®] -based nanofibers as a potential fast transdermal releaser of aceclofenac. 2021 , 325, 115206		2
92	Accelerated disintegration of compostable Ecovio polymer by using ZnO particles as filler. 2021 , 185, 109501		9
91	Influence of Reactive Chain Extension on the Properties of 3D Printed Poly(Lactic Acid) Constructs. <i>Polymers</i> , 2021 , 13,	4.5	5

90	Preparation of low-density polyethylene- and poly (lactide)/poly (butylene adipate-co-terephthalate)-based antibacterial films integrated with elemental sulfur and sulfur nanoparticles. 2021 , 34, 505		4
89	Enhanced the melt strength, toughness and stiffness balance of the reactive PB-g-SAG core-shell particles modified polylactide blends with the aid of a multifunctional epoxy-based chain extender. 2021 , 28, 1		2
88	The effect of type and ratios of secondary materials on some mechanical properties of the ternary polymer blends based on the unsaturated polyester. 2021 ,		0
87	A Review on Multifunctional Epoxy-Based Joncryl [®] ADR Chain Extended Thermoplastics. 1-55		12
86	Effect of glycidyl methacrylate-grafted poly(ethylene octene) on the compatibility in PLA/PBAT blends and films. 2021 , 38, 1746-1755		2
85	Gum Rosin as a Size Control Agent of Poly(Butylene Adipate-Co-Terephthalate) (PBAT) Domains to Increase the Toughness of Packaging Formulations Based on Polylactic Acid (PLA). <i>Polymers</i> , 2021 , 13,	4.5	1
84	Flow Characteristics, Mechanical, Thermal, and Thermomechanical Properties, and 3D Printability of Biodegradable Polylactide Containing Boehmite at Different Loadings. <i>Polymers</i> , 2021 , 13,	4.5	1
83	Study on the preferential distribution of acetyl tributyl citrate in poly(lactic acid)-poly(butylene adipate-co-terephthalate) blends. <i>Polymer Testing</i> , 2021 , 98, 107163	4.5	3
82	Structure of PBAT/PPC blends prepared by in-situ reactive compatibilization and properties of their blowing films. 2021 , 27, 102215		1
81	Fabrication of green composite fibers from ground tea leaves and poly(lactic acid) as eco-friendly textiles with antibacterial property. 2021 , 23, 1964-1973		1
80	Electrospun poly(lactic acid) (PLA)/poly(butylene adipate-co-terephthalate) (PBAT) nanofibers for the controlled release of cilostazol. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 333-342	4.79	5
79	Impacts of chain extenders on thermal property, degradation, and rheological performance of poly(butylene adipate-co-terephthalate). 2021 , 36, 3134-3144		2
78	The effect of different compatibilizers on the properties of prepared poly(lactic acid)/polyurethane nanofibers by electrospinning. 152808372110290		0
77	Preparation of Organic Crystal Seed and Its Application in Improving the Functional Period of Biodegradable Agricultural Film. 2021 , 11, 826		1
76	Binary Green Blends of Poly(lactic acid) with Poly(butylene adipate--butylene terephthalate) and Poly(butylene succinate--butylene adipate) and Their Nanocomposites. <i>Polymers</i> , 2021 , 13,	4.5	10
75	Degradation Mode of PBAT Mulching Film and Control Methods During Its Degradation Induction Period. 2021 , 18,		0
74	The Effects of Chain-Extending Cross-Linkers on the Mechanical and Thermal Properties of Poly(butylene adipate terephthalate)/Poly(lactic acid) Blown Films. <i>Polymers</i> , 2021 , 13,	4.5	3
73	Reactive extrusion of biodegradable PGA/PBAT blends to enhance flexibility and gas barrier properties. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51617	2.9	7

72	Potential wound dressings from electrospun medicated poly(butylene-adipate-co-terephthalate)/poly(ϵ -caprolactone) microfibers. 2021 , 339, 116694		2
71	Carvacrol, citral and Eucalyptol essential oil incorporated biodegradable films for functional active packaging of Pacific white shrimp. 2021 , 363, 130252		19
70	Performance modifying techniques for recycled thermoplastics. 2021 , 175, 105887		4
69	Antifungal and plasticization effects of carvacrol in biodegradable poly(lactic acid) and poly(butylene adipate terephthalate) blend films for bakery packaging. 2021 , 152, 112356		15
68	Effects of nisin and EDTA on morphology and properties of thermoplastic starch and PBAT biodegradable films for meat packaging. 2022 , 369, 130956		16
67	Appraisal of ϵ -Caprolactam and Trimellitic Anhydride Potential as Novel Chain Extenders for Poly(lactic acid). 2020 , 60, 944-955		7
66	Effect of empty fruit bunches microcrystalline cellulose (MCC) on the thermal, mechanical and morphological properties of biodegradable poly (lactic acid) (PLA) and polybutylene adipate terephthalate (PBAT) composites. <i>Materials Research Express</i> , 2020 , 7, 015336	1.7	10
65	Synergistic effect of adding lignin and carbon black in poly(lactic acid). 2020 , 30,		4
64	Bionanocomposites of PLA/PBAT/organophilic clay: preparation and characterization. 2019 , 29,		3
63	Effect of chain extender on morphologies and properties of PBAT/PLA composites. 089270572110514		1
62	Poly (Lactic Acid) Generated for Advanced Materials. 2017 , 106-127		
61	Preparation of Biodegradable Stereocomplex Polylactide Films by Compression Molding Using Poly(ϵ -caprolactone-co-L-lactide) Copolyester as a Film Former. 2018 , 11, 364-375		1
60	Composition design of PLA/TPU emulsion blends compatibilized with multifunctional epoxy-based chain extender to tackle high impact resistant ductile structures. <i>Journal of Applied Polymer Science</i> , 51833	2.9	0
59	Features of obtaining and properties of binary blends of polylactides. Review. 2020 , 3, 146-156		
58	Film Blowing of PHB-Based Systems for Home Compostable Food Packaging. 2020 , 35, 440-447		
57	Biodegradable Foaming Material of Poly(butylene adipate-co-terephthalate) (PBAT)/Poly(propylene carbonate) (PPC). <i>Chinese Journal of Polymer Science (English Edition)</i> , 1	3.5	3
56	Study of Thermal, Mechanical and Barrier Properties of Biodegradable PLA/PBAT Films with Highly Oriented MMT. 2021 , 14,		2
55	Are micro- and nanoplastics from soil-biodegradable plastic mulches an environmental concern?. 2021 , 4, 100024		3

54	Fabrication of PBAT/PPC Blend Nanocomposites with Low Conductivity Percolation and Balanced Mechanical and Barrier Properties via Incorporation of Partially Reductive GO. 2100860		1
53	Effect of PVOH/PLA + Wax Coatings on Physical and Functional Properties of Biodegradable Food Packaging Films.. <i>Polymers</i> , 2022 , 14,	4.5	1
52	The effect of polycarbodiimide chain extender on thermal stability and mechanical properties of biobased poly(lactic acid)/natural rubber blown films. 875608792110586		0
51	Enhanced Crystallization Behavior and Stiffness-toughness Balance of Polylactide/Poly(propylene carbonate)/Nucleating Agent Blends. <i>Thermochimica Acta</i> , 2022 , 179207	2.9	0
50	Effect of hydroxyl and carboxyl-functionalized carbon nanotubes on phase morphology, mechanical and dielectric properties of poly(lactide)/poly(butylene adipate-co-terephthalate) composites.. <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	2
49	The essential role of PBS on PBAT foaming under supercritical CO2 toward green engineering. <i>Journal of CO2 Utilization</i> , 2022 , 60, 101965	7.6	0
48	Fully Biobased Reactive Extrusion of Biocomposites Based on PLA Blends and Hazelnut Shell Powders (HSP). <i>Chemistry</i> , 2021 , 3, 1464-1480	2.1	0
47	Effect of Compatibilization of Thermoplastic Polyurethane with Poly(lactic acid) for the Preparation of Sustainable Blends. <i>Polymer Science - Series A</i> , 2021 , 63, S46-S57	1.2	0
46	Magnetically active nanocomposites based on biodegradable polylactide, polycaprolactone, polybutylene succinate and polybutylene adipate terephthalate. <i>Polymer</i> , 2022 , 124804	3.9	2
45	Selective Localization of Nanofiller on Mechanical Properties of Poly(lactic acid)/Poly(butylene adipate-co-terephthalate) Nanocomposites via the Surface Energy and Melt Blending Technique. <i>Macromolecules</i> ,	5.5	1
44	Structural, thermo-mechanical and morphological properties of composites made with poly(lactic acid) and poly(ethylene terephthalate) fibers without compatibilizer. <i>Journal of Adhesion Science and Technology</i> , 1-23	2	
43	The Use of Branching Agents in the Synthesis of PBAT.. <i>Polymers</i> , 2022 , 14,	4.5	0
42	Lignin modified PBAT composites with enhanced strength based on interfacial dynamic bonds. <i>Journal of Applied Polymer Science</i> ,	2.9	0
41	Bioplastics for food packaging. <i>Trends in Food Science and Technology</i> , 2022 ,	15.3	7
40	Process-Induced Morphology of Poly(Butylene Adipate Terephthalate)/Poly(Lactic Acid) Blown Extrusion Films Modified with Chain-Extending Cross-Linkers. <i>Polymers</i> , 2022 , 14, 1939	4.5	1
39	Fully Organic and Flexible Biodegradable Emitter for Global Energy-Free Cooling Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 7091-7099	8.3	3
38	A Green High Barrier Solution for Paperboard Packaging based on Potato Fruit Juice, Poly(lactic acid), and Poly(butylene adipate terephthalate). <i>ACS Applied Polymer Materials</i> ,	4.3	0
37	Compatibilization strategies and analysis of morphological features of poly(butylene adipate-co-terephthalate) (PBAT)/poly(lactic acid) PLA blends: A state-of-art review. <i>European Polymer Journal</i> , 2022 , 173, 111304	5.2	4

36	Property improvement of processed PLA/PBAT using chain extenders. <i>Materials Research Express</i> , 2022 , 9, 064002	1.7	0
35	Mechanical and barrier properties of simultaneous biaxially stretched polylactic acid/thermoplastic starch/poly(butylene adipate-co-terephthalate) films. <i>Polymer Bulletin</i> ,	2.4	
34	Toughening polylactic acid by melt blending with polybutylene adipate-co-terephthalate and natural rubber, and the performance of the resulting ternary blends. <i>Journal of Applied Polymer Science</i> ,	2.9	
33	Design of compostable materials for the manufacturing of flexible tampon applicators. <i>Procedia CIRP</i> , 2022 , 110, 342-347	1.8	0
32	Crystalline, Rheological and Mechanical Enhancement in PBAT/PPC/Silica Nanocomposites with Double Percolation Network. <i>Chinese Journal of Polymer Science (English Edition)</i> ,	3.5	
31	Enhancement of the properties of poly(L-lactide)/poly(butylene adipate-co-terephthalate) blends by introduction of stereocomplex polylactide crystallites. <i>Thermochimica Acta</i> , 2022 , 715, 179272	2.9	
30	The Potential of an Itaconic Acid Diester as Environmentally Friendly Plasticizer for Injection-Molded Polylactide Parts. 2200360		2
29	Epoxy-modified Pyrophyllite as a Multifunctional Chain Extender for Poly (Lactic Acid). 2200194		1
28	Thermoplastic starch based blends as a highly renewable filament for fused deposition modeling 3D printing. 2022 , 219, 175-184		1
27	The carbon nanotubes effects on the morphology and properties of poly(lactic) acid/poly(butylene adipate-co-terephthalate) blends.		0
26	Microstructure and barrier properties of reactive compatibilized PLA/PA11 blends investigated by positron annihilation lifetime spectroscopy. 2022 , 115, 107763		0
25	Metal-coordination and surface adhesion-assisted molding enabled strong, water-resistant carboxymethyl cellulose films. 2022 , 298, 120084		0
24	Enhanced miscibility of PBAT/PLA/lignin upon γ irradiation and effects on the non-isothermal crystallization.		0
23	Effect of different type of organomontmorillonites on oxygen permeability of PLA -based nanocomposites blown films.		0
22	Development of Biodegradable PLA/PBAT-Based Filaments for Fertilizer Release for Agricultural Applications. 2022 , 15, 6764		0
21	Development of poly (butylene adipate-co-terephthalate) PBAT toughened poly (lactic acid) blends 3D printing filament. 2022 , 29,		1
20	Feasibility of production starch/poly(butylene adipate- co -terephthalate) biodegradable materials with microalgal biomass by blown film extrusion.		0
19	Super Ductile and Stiff PBAT / PLA Biodegradable-composites Balanced with Random PMMA-co-GMA Copolymer as Compatibilizer.		0

18	Comparative Study on Properties of PBAT/PBSA Film Modified by a Multi-Functional Epoxide Chain Extender or Benzoyl Peroxide. 2023 , 11, 1303-1319	0
17	Polyester-based polyurethanes derived from alcoholysis of polylactide as toughening agents for blends with shape-memory properties. 2022 , 12, 35328-35340	0
16	Influence of processing parameters on mechanical and thermal behavior of PLA/PBAT blend. 2022 , 32,	0
15	Antimicrobial and Gas Barrier Crustaceans and Fungal Chitin-Based Coatings on Biodegradable Bioplastic Films. 2022 , 14, 5211	2
14	Mechanical, Barrier, and Biodegradable Properties of Poly(butylene adipate-co-terephthalate)/Polyglycolic Acid Blends Prepared by Reactive Extrusion.	0
13	Biodegradable blends from bacterial biopolyester PHBV and bio-based PBSA: Study of the effect of chain extender on the thermal, mechanical and morphological properties. 2023 , 225, 1291-1305	0
12	Processing Polymer Blends of Mater-Bi and Poly-L-(Lactic Acid) for Blown Film Application with Enhanced Mechanical Strength. 2023 , 15, 153	0
11	Preparation and Performance of Biodegradable Poly(butylene adipate-co-terephthalate) Composites Reinforced with Novel AgSnO ₂ Microparticles for Application in Food Packaging. 2023 , 15, 554	1
10	Blown film stability for low, medium, and high molecular weight polylactic acid and their tensile properties. 875608792311537	0
9	Identification of biodegradable plastics using differential scanning calorimetry and carbon composition with chemometrics. 2023 , 10, 100260	0
8	Poly(butylene adipate-co-terephthalate)/Poly(lactic acid) Polymeric Blends Electrospun with TiO ₂ -R/Fe ₃ O ₄ for Pollutant Photodegradation. 2023 , 15, 762	0
7	Application of a PLA/PBAT/Graphite sensor obtained by electrospinning on determination of 2,4,6-trichlorophenol. 1-14	0
6	The Preparation of PLA/PBAT/PPC Ternary Blends and The Effect of Epoxidized Soybean Oil on the Physical and Mechanical properties of PLA/PBAT/PPC blends with the Reactive Compatibilization.	0
5	Biodegradable Poly(butylene adipate-co-terephthalate)/Poly(glycolic acid) Films: Effect of Poly(glycolic acid) Crystal on Mechanical and Barrier Properties.	0
4	Development of active PLA/PEG-blended film with grape seed extract for straw mushroom shelf life extension. 2023 , 31, 193-211	0
3	Biomethane Potential in Anaerobic Biodegradation of Commercial Bioplastic Materials. 2023 , 9, 261	0
2	Melt Processible Biodegradable Blends of Polyethylene Glycol Plasticized Cellulose Diacetate with Polylactic Acid and Polybutylene Adipate-co-Terephthalate.	0
1	High-Barrier Poly(butylene succinate-co-terephthalate) Blend with Poly(lactic acid) as Biodegradable Food Packaging Films. 2023 , 62, 7250-7261	0

