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Effect of annealing on the microstructure and mechanical properties of polypropylene with oriented shish-kebab structure

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#	Paper	IF	Citations
44	Realizing the simultaneously improved toughness and strength of ultra-thin LLDPE parts through annealing. <i>Polymer</i> , 2013 , 54, 6843-6852	3.9	21
43	Crystalline structure changes in preoriented metallocene-based isotactic polypropylene upon annealing. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 7113-22	3.4	16
42	Unexpected molecular weight dependence of shish kebab in water-assisted injection molded HDPE. <i>Polymers for Advanced Technologies</i> , 2013 , 24, 270-272	3.2	18
41	The impact of new crystalline lamellae formation during annealing on the properties of polypropylene based films and membranes. <i>Polymer</i> , 2014 , 55, 3156-3167	3.9	64
40	Progress on the morphological control of conductive network in conductive polymer composites and the use as electroactive multifunctional materials. <i>Progress in Polymer Science</i> , 2014 , 39, 627-655	29.6	460
39	Comparison between Cellulose Nanocrystal and Cellulose Nanofibril Reinforced Poly(ethylene oxide) Nanofibers and Their Novel Shish-Kebab-Like Crystalline Structures. <i>Macromolecules</i> , 2014 , 47, 3409-3416	5.5	110
38	Reexamination of shish kebab formation in poly(ethylene oxide) melts. <i>Polymer</i> , 2014 , 55, 2890-2899	3.9	11
37	The effect of high temperature annealing process on crystallization process of polypropylene, mechanical properties, and surface quality of plastic parts. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	8
36	Annealing induced microstructure and mechanical property changes of impact resistant polypropylene copolymer. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015 , 33, 1211-1224	3.5	10
35	Fabrication of microporous membranes from melt extruded polypropylene precursor films via stretching: Effect of annealing. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015 , 33, 1028-1037	3.5	17
34	Structural evolution and mechanical properties of iPP melt spun fibers subjected to thermal treatment. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	2
33	Direct microscopic observation of shish-kebab structure in high-temperature electrospun iPP fibers. <i>Materials Letters</i> , 2016 , 172, 149-152	3.3	14
32	An evaluation of the melt crystallisation behaviour of injection-moulded high-density polyethylene (HDPE) based on a solidification kinetics analysis. <i>Plastics, Rubber and Composites</i> , 2017 , 46, 200-211	1.5	4
31	Influence of Annealing on Mechanical β -Relaxation of Isotactic Polypropylene: A Study from the Intermediate Phase Perspective. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700291	3.9	7
30	Nucleation ability of nonmetallic organophosphate derivatives in isotactic polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 127, 2283-2291	4.1	2
29	Effect of high-temperature annealing on the microstructure and mechanical properties of polypropylene with shish kebab or spherulite structure. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46465	2.9	6
28	Improving the mechanical and thermal properties of shish-kebab via partial melting and re-crystallization. <i>European Polymer Journal</i> , 2018 , 101, 1-11	5.2	10

27	Multiscale and Multistep Ordering of Flow-Induced Nucleation of Polymers. <i>Chemical Reviews</i> , 2018 , 118, 1840-1886	68.1	153
26	Effect of annealing on microstructure and tensile properties of polypropylene cast film. <i>Colloid and Polymer Science</i> , 2018 , 296, 41-51	2.4	5
25	Improving the impact strength of polypropylene/carbon fiber composites via β modification and annealing treatment. <i>Polymer Crystallization</i> , 2018 , 1, e10010	0.9	
24	Processing-Structure-Property Relationships of All-Polyethylene Composites Reinforced by Flow-Induced Oriented Crystallization of UHMWPE. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800022	3.9	11
23	Melt Crystallization Behavior of Injection-Molded High-Density Polyethylene Based Upon a Solidification Kinetic Analysis. <i>Journal of Macromolecular Science - Physics</i> , 2019 , 58, 42-58	1.4	6
22	Influence of annealing on the morphology and mechanical properties of iPP/HDPE blend with tailored oriented crystalline structures. <i>Journal of Polymer Research</i> , 2019 , 26, 1	2.7	7
21	Remarkably Improved Impact Fracture Toughness of Isotactic Polypropylene via Combining the Effects of Shear Layer-Spherulites Layer Alternated Structure and Thermal Annealing. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15069-15078	3.9	4
20	Effect of crystalline content on ratchetting of ultra-high molecular weight polyethylene polymers: Experimental investigation and constitutive model. <i>Mechanics of Materials</i> , 2019 , 133, 37-54	3.3	9
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18	Hierarchical Structure of iPP During Injection Molding Process with Fast Mold Temperature Evolution. <i>Materials</i> , 2019 , 12,	3.5	14
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16	The structure changes of polypropylene precursor film with different die draw ratio during annealing. <i>Polymer</i> , 2020 , 208, 122958	3.9	1
15	The effect of high-temperature annealing on thermal properties and morphology of polyethylene pipes prepared by rotational shear. <i>Polymer</i> , 2020 , 204, 122770	3.9	2
14	Rejuvenation of Retired Power Cables by Heat Treatment: Experimental Simulation in Lab. <i>IEEE Access</i> , 2020 , 8, 5635-5643	3.5	7
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12	Thermal post-processing of bagasse fiber reinforced polypropylene composites. <i>Composites Communications</i> , 2021 , 23, 100546	6.7	2
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9	Annealing of Oriented PP/PE Double-layer Film within the Melting Range of PE: the Role of Partial Melting and Self-nucleation. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022 , 40, 403-412	3.5	
8	Enhanced effect of thermal expansion process in rotational shear technology for high performance HDPE pipes. <i>Polymer</i> , 2022 , 124796	3.9	○
7	The effect of annealing time on morphology, mechanical properties, and thermal conductivity of HDPE pipes produced by rotational shear. <i>Materials Today Communications</i> , 2022 , 31, 103321	2.5	
6	Polytetrafluoroethylene fiber fabrication from the continuous melt-spinning process and its properties. <i>Textile Reseach Journal</i> , 004051752211016	1.7	
5	Efficient horizontal lifting and annealing method for creating alternating multilayer structures with hard and soft multi-particle layers. <i>Thin Solid Films</i> , 2022 , 139416	2.2	
4	Microinjection molding of polyoxymethylene stepped-parts: Morphology, crystallinity, shrinkage, and thermal characterization. <i>Journal of Applied Polymer Science</i> ,	2.9	○
3	Further improved mechanical properties of polypropylene by shish-kebab structure and high-temperature annealing.		
2	Modeling and Analysis of Morphology of Injection Molding Polypropylene Parts Induced by In-Mold Annealing. 2022 , 14, 5245		○
1	Boosted Mechanical Properties of Polyamide 11 Tube Originated from the Hierarchical Architecture Manipulation by Helical Flow Field.		○