

目次

材料与应用

- PMMA 对 PC/ASA/PMMA 合金性能的影响·····曹贤武, 邓雪芹, 刘杨 (1)
- 交替多层 PC/PMMA 光学薄膜的制备·····黄亮, 杨卫民, 焦志伟, 等 (6)
- EG 与 GF 改性聚氨酯保温材料的阻燃及力学性能·····王圣程, 姜慧, 张云峰, 等 (11)
- 水性油墨用聚丙烯酸酯/二氧化硅复合材料的制备·····郑显才, 毛宏萍, 陈杰, 等 (16)
- 基于正交设计的 PEEK 基复合材料摩擦学性能·····刘后宝, 苏新清, 夏炎, 等 (20)
- 高热稳定性封端聚苯砜树脂的合成及表征·····陈锐斌, 高红军, 孙学科, 等 (25)
- 抗溶剂中静电喷雾法制备聚己内酯微颗粒·····姚芸, 刘训伟, 孙智, 等 (30)
- 通过反应性挤出对废旧 PC/ABS 合金的改性·····王亚菲, 李迎春, 王文生, 等 (35)
- 聚酰亚胺/碳纳米管复合材料的制备及性能·····邢亮臣, 陈孝起, 周海军, 等 (39)
- 新型成核剂/纳米 MMT 复合体系对 iPP 性能影响·····聂莹, 夏胜利, 何晓春 (43)
- 过氧化物交联超高分子量聚乙烯的结构与性能·····刘群, 钟蔚华, 张勇, 等 (48)

加工

- 熔体微分离静电纺丝技术批量制备纳米纤维·····余韶阳, 安琪, 李守猛, 等 (53)
- 铺层参数对玻璃钢层合板力学性能的影响·····张成林, 李丽君, 董抒华, 等 (58)
- 气体反压对微孔发泡注塑制品泡孔质量的影响·····张翔, 王恒, 蒋团辉, 等 (62)
- PS/ABS 复合粉末选区激光烧结表面质量及弯曲强度·····徐超, 王勃, 杨来侠, 等 (67)
- ABS/PE-LD 共混材料模压发泡的性能·····廖华勇, 彭辉, 李书齐, 等 (73)

机械与模具

- 基于自适应神经网络模糊 PID 的 PTFE 电缆线径控制系统·····周克良, 韩李珂, 胡梁眉 (78)
- 仿血管模型的随形冷却水道设计与优化·····刘斌, 林梓威, 吴茜 (84)
- 基于 IMR 工艺的笔记本电脑外壳盖注射模设计·····任长春, 张颖利 (89)

测试与老化

- 碱性腐蚀对玻纤增强树脂基复合材料性能的影响·····徐国强, 代礼葵, 孙耀宁 (94)
- 热氧老化对尼龙 10T/短玻璃纤维复合材料性能影响·····何雍, 王健, 周颖, 等 (100)
- 阻燃 ABS 燃烧行为·····秦旺平, 付锦锋, 陈平绪, 等 (104)
- PVDF/NLCTO 陶瓷粉复合材料的制备及介电性能·····刘圣楠, 蔡会武, 彭建东, 等 (109)
- 改性聚苯醚微发泡材料的制备及阻燃性能表征·····李蝶, 翟文涛, 黄朋科, 等 (115)
- 六氟双酚 A 型 PEEK 的热分解动力学·····赵晓刚, 龚维, 任万杰, 等 (121)

填料与助剂

- 酸改性 HZSM-5 分子筛催化合成柠檬酸正丁酯·····邹训重, 冯安生, 黎彧, 等 (125)
- 不同类型抗氧化剂对 PA6 长效耐热性能影响·····田赫, 蔡智奇, 李迎春, 等 (129)

综述

- 热固性树脂基复合材料的化学回收方法及再利用现状·····雷蕊英, 齐锴亮 (134)
- PP 在热成型包装领域应用及发展·····刘春阳, 每评 (138)
- 高分子注塑加工工艺智能检测研究进展·····张永超 (143)



工程塑料应用

月刊 · 公开发行 · 1973 年创刊

第 46 卷, 第 11 期

(总第 349 期)

2018 年 11 月 10 日出版

主管 中国兵器工业集团公司
主办 中国兵器工业集团第五三研究所
中国兵工学会非金属专业委员会
兵器工业非金属专业情报网

编辑·出版《工程塑料应用》杂志社

社长·主编 王金立

执行主编 张振

通讯地址 济南市天桥区田庄东路 3 号

邮政编码 250031

电话 编辑部: 0531-85878057

广告部: 0531-85878220

发行部: 0531-85878223

网络光盘部: 0531-85878224

传真 0531-85947355

电子信箱 epa@epa1973.com

网址 www.epa1973.com

www.epa1973.net

排版 本刊杂志社

印刷 济南继东彩艺印刷有限公司

国内发行 济南市邮政局

邮发代号 24-42

国外发行 中国国际图书贸易总公司

(北京 399 信箱 100044)

国外发行代号 4503 MO

国内统一刊号 CN 37-1111/TQ

国际标准刊号 ISSN 1001-3539

广告经营许可证号 3700004000047

全国各地邮局均可订阅 每册定价 15 元

本刊杂志社办理订阅

本期责任编辑 代芳, 吕召胜, 栾维涛



**ENGINEERING
PLASTICS
APPLICATION
(EPA)**

Monthly
(Started Publication in 1973)
Vol.46, No.11, 2018
(Series No.349)
Published on Nov. 10, 2018

Superintended by

China North Industries Group Corporation

Sponsored by

CNGC Institute 53, etc.

Editor & Publisher

The Magazine House of
ENGINEERING PLASTICS APPLICATION

Director & Chief Editor Wang Jinli

Executive Chief Editor Zhang Zhen

Add No.3 Tianzhuang East Road, Tianqiao
District, Jinan, China

Postcode 250031

Tel +86 531 85878057 85878224
85878220 85878223

Fax +86 531 85947355

E-mail 5947355@163.com
epa@epa1973.com

Website www.epa1973.com

Distributor Abroad

China International Book Trading Corporation
(P.O. Box 399, Beijing 100044, China)

Distributing Code Abroad 4503 MO

Unified Number of Print

ISSN 1001-3539
CN 37-1111/TQ

Dai Fang

Duty Editor Lyu Zhaosheng
Luan Weitao

Main Contents

Materials & Applications

- Effect of PMMA on the Properties of PC / ASA / PMMA Alloy.....
..... Cao Xianwu, Deng Xueqin, Liu Yang(1)
- Preparation of Alternating and Multilayer PC / PMMA Optical Film
.....Huang Liang, Yang Weimin, Jiao Zhiwei, et al.(6)
- Flame-Retardant and Mechanical Properties of Polyurethane Insulation Materials Modified by
EG and GF.....Wang Shengcheng, Jiang Hui, Zhang Yunfeng, et al. (11)
- Preparation of Polyacrylate / SiO₂ Composites for Water-Based Ink.....
.....Zheng Xiancai, Mao Hongping, Chen Jie, et al.(16)
- Tribological Properties of PEEK Composites Based on Orthogonal Design.....
..... Liu Houbao, Su Xinqing, Xia Yan, et al.(20)
- Synthesis and Characterization of End Group Modified PSU with High Thermostability ...
..... Chen Ruibin, Gao Hongjun, Sun Xueke, et al.(25)
- Preparation of PCL Microparticles from Electrospinning in Anti-Solvent.....
..... Yao Chang, Liu Xunwei, Sun Zhi, et al.(30)
- Modification of Waste PC / ABS Alloys by Reactive Extrusion.....
..... Wang Yafei, Li Yingchun, Wang Wensheng, et al.(35)
- Preparation and Properties of Polyimide / Carbon Nanotubes Composites.....
.....Xing Liangchen, Chen Xiaoqi, Zhou Haijun, et al.(39)
- Effect of New Nucleating Agent and Nanoclay on the Properties of Isotactic Polypropylene...
..... Nie Ying, Xia Shengli, He Xiaochun(43)
- Structure and Properties of Peroxide Crosslinked PE-UHMW.....
.....Liu Qun, Zhong Weihua, Zhang Yong, et al.(48)

Process Technology

- Melt Differential Centrifugal Electrospinning Technology for Batch Preparation of Nanofibers
.....Yu Shaoyang, An Ying, Li Shoumeng, et al.(53)
- Effect of Ply Parameters on Mechanical Properties of GFRP Laminates.....
..... Zhang Chenglin, Li Lijun, Dong Shuhua, et al.(58)
- Effect of Gas Counter Pressure on the Foaming Behavior of Microcellular Injection Products
..... Zhang Xiang, Wang Heng, Jiang Tuanhu, et al.(62)
- Surface Quality and Bending Strength of Selective Laser Sintering of PS / ABS Composite
Powder..... Xu Chao, Wang Bo, Yang Laixia, et al.(67)
- Properties on Mold Foaming of ABS / PE-LD Blends
..... Liao Huayong, Peng Hui, Li Shuqi, et al.(73)

Machinery & Moulds

- PTFE Cable Diameter Control System Based on Adaptive Neural Network Fuzzy PID
.....Zhou Keliang, Han Like, Hu Liangmei(78)
- Design and Optimization of Conformal Cooling Channel Based on Blood Vessel Model
..... Liu Bin, Lin Ziwei, Wu Xi(84)
- Design of Injection Mould for Notebook Computer Cover Based on IMR Technology.....
.....Ren Changchun, Zhang Yingli(89)

Analysis & Ageing

- Influence of Performance to Glass Fiber Reinforced Resin Matrix Composites under Alkaline
Corrosion..... Xun Guoqiang, Dai Likui, Sun Yaoning(94)
- Effect of Thermal-Oxidative Aging on Properties of PA10T / SGF Composites.....
..... He Yong, Wang Jian, Zhou Ying, et al.(100)
- Combustion Behavior of Flame Retardant ABS.....
..... Qin Wangping, Fu Jinfeng, Chen Pingxu, et al.(104)
- Preparation and Dielectric Properties of PVDF / NLCTO Ceramic Powder Composites
.....Liu Shengnan, Cai Huiwu, Peng Jiandong, et al.(109)
- Preparation and Flame Retardancy Characterization of Microcellular Modified PPE.....
..... Li Die, Zhai Wentao, Huang Pengke, et al.(115)
- Kinetic on Thermal Degradation of Poly (ether ether ketone) Containing BPAF.....
.....Zhao Xiaogang, Gong Wei, Ren Wanjie, et al.(121)

Fillers & Additives

- Catalyzed Synthesis of Tri-n-butyl Citrate by Acid Modified HZSM-5.....
.....Zou Xunzhong, Feng Ansheng, Li Yu, et al. (125)
- Effect on Heat-Resistant Oxygen Modification of Polyamide 6.....
.....Tian Cheng, Cai Zhiqi, Li Yingchun, et al.(129)

Summary

- Chemical Recycling and Reusing of Thermosetting Resin Based Composites.....
.....Lei Ruiying, Qi Kailiang (134)
- Application and Development of PP in Thermoforming Packaging.....
..... Liu Chunyang, Mei Ping(138)
- Intelligent Detection in Polymer Injection Molding Process Progress Research.....
.....Zhang Yongchao(143)