

目次

材料与应用

- PLA/TPEE 共混物的制备及性能·····傅楚娴,刘斐,宋迪,等(1)
- 微交联 SAM 共聚物对 PC/ABS 合金性能的影响·····李欣达,李文龙,丁正亚(8)
- 静电纺丝制备聚己内酯血管支架及其性能·····孙天舒,范传杰,常瑶,等(14)
- 插线板用高抗冲阻燃耐热 PET/PC 合金的制备·····徐星驰,张伟,吴玉成(20)
- 增韧剂对玻纤增强聚亚苯基砜复合材料性能的影响·····杨硕,高红军,叶少勇,等(26)
- 聚苯硫醚/榭皮素抗氧化纤维的制备及性能·····韩汶欣,任靖屹,连丹丹,等(32)
- 增韧尼龙 66 的制备及耐低温性能·····马小丰,金旺,刘莉莉,等(38)
- 低光泽 PA6/ABS 合金的影响因素·····陈健(43)

加工

- 多孔聚丙烯酸钠高吸水性树脂的合成及表面改性·····朱帅帅,肖芝,周晓东,等(48)
- 丙酮蒸汽清洗处理 CF 表面的工艺·····李莉萍,吴道义,战奕凯,等(55)
- 微开模距离对微发泡聚丙烯性能的影响·····蒋团辉,曾祥补,张翔,等(60)
- 有机金属化合物对静电喷雾产品形貌的影响·····韩骥聪,刘训伟,杨辰,等(66)
- 静电纺 PMIA 纳米纤维的制备工艺优化及性能·····丰江丽,韩万里,谢胜,等(70)
- 激光打标参数对黑色无卤阻燃尼龙打标效果的影响·····梁惠强,李皓,钟毅文,等(76)

机械与模具

- 耳机支架热流道注塑模具设计·····沈忠良,谢国芳,孙圣,等(81)
- 工业机器人接插转动板注塑模具设计·····李春玲(87)
- 电池盒上盖顶部内螺纹脱模机构及注塑模设计·····徐勇军,邱腾雄,何显运(92)
- 基于 CAE 的智能马桶座盖注塑模具设计·····傅莹龙(97)

测试与老化

- 碳量子点 @ MnO₂ 复合材料的制备及其柔性超级电容器的性能·····
·····王舒钰,庞洪昌,宁桂玲(102)
- PA12T/SGF 复合材料的制备及性能·····王棒棒,张娜娜,付鹏,等(107)

填料与助剂

- 勃姆石/MPP 二元协效 AlPi 阻燃 PA66/GF 复合材料研究·····吴长波,张永,易新,等(112)
- 含氟硅环三磷腈衍生物的合成及其阻燃改性聚碳酸酯的性能·····
·····卞国栋,罗钟琳,王标兵(118)
- 滑石粉在 SEBS/PP 热塑性弹性体中的应用·····宋建强,曾国元,曾晓勇,等(123)

综述

- 聚苯并咪唑类高温质子交换膜研究进展·····李涛,林蔚然,张韬毅,等(128)
- PTFE 改性研究进展·····文怀兴,曹蕾,高飒飒(133)
- 碳纳米管改性热塑性聚氨酯基纳米复合材料研究进展·····郭怡,严磊,陈宇哲,等(139)
- 聚乳酸基复合材料耐热改性研究进展·····韩松芬,李阳,何敏,等(143)



工程塑料应用

月刊 · 公开发行 · 1973 年创刊

第 47 卷,第 6 期

(总第 356 期)

2019 年 6 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
兵器工业非金属材料专业情报网

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 20 元

本刊杂志社办理订阅

本期责任编辑 赵志鸿,代芳,栾维涛



**ENGINEERING
PLASTICS
APPLICATION
(EPA)**

Monthly

(Started Publication in 1973)

Vol.47, No.6, 2019

(Series No.356)

Published on Jun. 10, 2019

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 epa@epa1973.com

Website www.epa1973.com
www.epa1973.net

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

Duty Editor Zhao Zhihong
Dai Fang
Luan Weitao

Main Contents

Materials & Applications

- Preparation and Performances of PLA / TPEE Blends···*Fu Chuxian, Liu Fei, Song Di, et al.* (1)
- Effects of Micro-Crosslinking SAM Copolymer on Properties of PC / ABS Alloy·····
·····*Li Xinda, Li Wenlong, Ding Zhengya* (8)
- Preparation and Properties of Polycaprolactone Vascular Stent by Electrospinning·····
·····*Sun Tianshu, Fan Chuanjie, Chang Yao, et al.* (14)
- Preparation of Flame Retardant PET / PC Alloy with High Impact and Heat Resistant for
Plugboard·····*Xu Xingchi, Zhang Wei, Wu Yucheng* (20)
- Effects of Toughening Agents on Properties of Glass Fiber Reinforced Poly(phenylene sulfone)
Composites·····*Yang Shuo, Gao Hongjun, Ye Shaoyong, et al.* (26)
- Preparation and Properties of Polyphenylene / Quercetin Sulfide Antioxidant Fibers·····
·····*Han Wenxin, Ren Jingyi, Lian Dandan, et al.* (32)
- Preparation and Low Temperature Properties of Toughened Polyamide 66·····
·····*Ma Xiaofeng, Jin Wang, Liu Lili, et al.* (38)
- Influence Factors of Low Gloss PA6 / ABS Alloys·····*Chen Jian* (43)

Process Technology

- Synthesis and Surface Modification of Porous Sodium Polyacrylate Superabsorbent Resin···
·····*Zhu Shuashuai, Xiao Zhi, Zhou Xiaodong, et al.* (48)
- Process for Cleaning Carbon Fiber Surface by Acetone Vapor·····
·····*Li Liping, Wu Daoyi, Zhan Yikai, et al.* (55)
- Effects of Micro-opening Distance on Properties of Microcellular Polypropylene·····
·····*Jiang Tuanhui, Zeng Xiangbu, Zhang Xiang, et al.* (60)
- Effects of Organometallics on Morphology of Product from Electro spraying·····
·····*Han Qicong, Liu Xunwei, Yang Chen, et al.* (66)
- Optimization and Properties of Poly(m-phenylene isophthalamide) Nanofibers via Electro-
spinning Process·····*Feng Jiangli, Han Wanli, Xie Sheng, et al.* (70)
- Impacts of Laser Marking Parameters on Black Halogen-free Flame-retardant Nylon Marking
Effects·····*Liang Huiqiang, Li Hao, Zhong Yiwen, et al.* (76)

Machinery & Moulds

- Design of Hot Runner Injection Mold for Earphone Bracket·····
·····*Shen Zhongliang, Xie Guofang, Sun Sheng, et al.* (81)
- Design of Injection Mould for Connecting Rotary Plate of Industrial Robot·····*Li Chunling* (87)
- Design of Injection Mould and Demoulding Mechanism for Inner Thread on Top of Battery
Box Upper Cover·····*Xu Yongjun, Qiu Tengxiang, He Xianyun* (92)
- Design of Injection Mold for Intelligent Toilet Seat Cover Based on CAE·····*Fu Yinglong* (97)

Analysis & Ageing

- Preparation of Carbon Quantum Dots @ MnO₂ Composite and Its Properties of Flexible
Supercapacitors·····*Wang Shuyu, Pang Hongchang, Ning Guiling* (102)
- Preparation and Properties of PA12T / SGF Composites·····
·····*Wang Bangbang, Zhang Nana, Fu Peng, et al.* (107)

Fillers & Additives

- Study on ALPi Flame Retarded PA66 / GF Composites with Binary Synergist of Boehmite and
MPP·····*Wu Changbo, Zhang Yong, Yi Xin, et al.* (112)
- Synthesis of Cyclotriphosphazene Derivate Containing Fluorosilicone and Its Properties of
Flame Retardant Polycarbonate·····*Bian Guodong, Luo Zhonglin, Wang Biaobing* (118)
- Application of Talcum Powder in SEBS / PP Thermoplastic Elastomer·····
·····*Song Jianqiang, Zeng Guoyuan, Zeng Xiaoyong, et al.* (123)

Summary

- Research Progress on Polybenzimidazole High Temperature Proton Conduction Membranes
·····*Li Tao, Lin Weiran, Zhang Taoyi, et al.* (128)
- Research Progress on Modification of PTFE·····*Wen Huaixing, Cao Lei, Gao Sasa* (133)
- Research Progress on Carbon Nanotubes Modified Thermoplastic Polyurethane Matrix Nano-
composites·····*Guo Yi, Yan Lei, Chen Yuzhe, et al.* (139)
- Research Progress on Heat Resistant Modification of PLA Matrix Composites·····
·····*Han Songfen, Li Yang, He Min, et al.* (143)