



橡胶工业

4
2023



Xiangjiao Gongye
China Rubber Industry

北京橡胶工业研究设计院有限公司 主办



广告

Sipiol® UV 绝缘涂料

- 绝缘涂料配方专为边角包覆和灵活应用而设计；
- 快速紫外固化, 不含VOC, 百分百固含量；
- 突出的基材附着力和绝缘性适用于诸多电池装配应用。



ENGINEERING YOUR SUCCESS.





橡胶工业

Xiangjiao Gongye
China Rubber Industry

第70卷第4期 (1953年创刊)

2023年4月25日出版

经国家科委批准出版

月刊 国内外发行

目 次

特约来稿

车辆稳态回转对轮胎热-力耦合响应的影响研究 孟照宏, 史彩霞, 周 磊, 翟明荣, 于成龙, 庄 磊 (243)

应用理论

片层钠基蒙脱土调控炭黑对天然橡胶/丁苯橡胶纳米复合材料性能的影响

..... 刘 超, 吴晓辉, 卢咏来, 张立群 (251)

磁粉并用对磁性丁腈橡胶胶料性能的影响 梁 琳, 张寒珠, 张保岗, 丁乃秀, 刘光烨 (260)

原材料·配方

石墨烯和碳纳米管的天然橡胶纳米复合材料的性能研究 刘梦琪, 徐钰东, 陈海龙 (266)

三元乙丙橡胶J-4090和6950C的结构与性能研究 靳紫昊, 邹 华 (272)

改性氢氧化钙填充硅橡胶的制备与性能研究 王 鑫, 李超芹 (278)

废旧轮胎裂解炭黑/炭黑N660并用在轮胎溴化丁基橡胶气密层胶中应用的研究

..... 裴宝民, 王慧鑫, 陈晓燕, 周士峰, 马立成, 管清钰 (283)

产品·设计

绿色低碳聚氨酯非充气轮胎的设计与制造 王 雷, 焦志伟, 孙嘉乐, 杨卫民, 罗 羣, 谭 晶 (288)

工艺·设备

非等温包覆机头胶料流场挤出均匀性的研究 焦冬梅, 许晓培, 苑诗帅, 吴程旺, 秦 健 (292)

过氧化双(2, 4-二氯苯甲酰)的合成工艺研究 于 磊, 李庆朝, 马振宇, 黄存影, 李元杰, 刘希霖 (300)

测试·分析

基于随机有限元法的可靠性分析方法概述 石春明, 赵敏敏, 韩璇璇, 王 勇 (305)

综述·专论

橡胶冷喂料挤出机螺杆构型的发展状况 王 宁, 苗 露, 胡学志, 潘弋人, 王之林, 刘彦昌 (311)

国内外动态 (271, 319)



China Rubber Industry

(Xiangjiao Gongye)

Vol. 70, No. 4, April 2023

• Monthly •

Contents

Special Contribution

- Study on Influence of Vehicle Steady-state Cornering on Thermal-Mechanical Coupling Response of Tires MENG Zhaohong, SHI Caixia, ZHOU Lei, ZHAI Mingrong, YU Chenglong, ZHUANG Lei (243)

Applied Theory

- Regulation of Carbon Black by Lamellar Sodium-based Montmorillonite and Its Influence on Properties of NR/SBR Nanocomposite LIU Chao, WU Xiaohui, LU Yonglai, ZHANG Liqun (251)

- Effect of Magnetic Powder Blending on Properties of Magnetic NBR Compound LIANG Lin, ZHANG Hanzhu, ZHANG Baogang, DING Naixiu, LIU Guangye (260)

Material • Compounding

- Study on Properties of NR Nanocomposites of Graphene and CNTs LIU Mengqi, XU Yudong, CHEN Hailong (266)

- Study on Structures and Properties of EPDM J-4090 and 6950C JIN Zihao, ZOU Hua (272)

- Preparation and Properties of Modified Calcium Hydroxide Filled Silicone Rubber WANG Xin, LI Chaoqin (278)

- Study on Application of Waste Tire Pyrolysis Carbon Black/Carbon Black N660 Blending in BIIR Inner Liner Compound of Tire PEI Baomin, WANG Huixin, CHEN Xiaoyan, ZHOU Shifeng, MA Licheng, GUAN Qingyu (283)

Product • Design

- Design and Manufacture of Green and Low-carbon Polyurethane Non-pneumatic Tire WANG Lei, JIAO Zhiwei, SUN Jiale, YANG Weimin, LUO Shen, TAN Jing (288)

Technology • Equipment

- Study on Extrusion Uniformity of Compound Flow Field in Non-isothermal Cladding Head JIAO Dongmei, XU Xiaopei, YUAN Shishuai, WU Chengwang, QIN Jian (292)

- Study on Synthesis Process of Bis(2, 4-dichlorobenzoyl) peroxide YU Lei, LI Qingchao, MA Zhenyu, HUANG Cunying, LI Yuanjie, LIU Xilin (300)

Testing • Analysis

- Summary of Reliability Analysis Methods Based on Stochastic Finite Element Method SHI Chunming, ZHAO Minmin, HAN Xuanxuan, WANG Yong (305)

Comprehensive and Special Review

- Development Status of Screw Configurations of Cold Feed Rubber Extruder WANG Ning, MIAO Lu, HU Xuezhi, PAN Yiren, WANG Zhilin, LIU Yanchang (311)

China Standard Serial Numbering: ISSN 1000-890X
CN 11-1812/TQ

Adv.& Dist.Tel.: +86-10-51338152, 51338151

Fax: +86-10-51338150

http://www.rubbertire.com.cn

E-mail: rubbertire@263.net

Published by Editorial Office of China Rubber Industry

Printed by Beijing BOHS Colour Printing Co., Ltd

Overseas Distributed by China International Book Trading Corporation (P. O. Box 399, Beijing 100048, China)

Publishing Date: every 25th

Overseas Subscription Price: 25 USD

Sponsored by Beijing Research and Design Institute of Rubber Industry Co., Ltd
Edited by Editorial Office of China Rubber Industry
Add.: No. 19A, Fushi Road, Haidian District, Beijing 100143, China
Tel.: +86-10-51338149, 51338678

Serial Parameters: CN 11-1812/TQ * 1953 * m * A4 * 80 * zh * P * \$25.00 * 4000 * 12 * 2023-04 * n