

- Compositions Incorporating Particulate Rubber[P]. US: USP 5 506 283 A. 1996-04-09.
- [8] El-Nemr K F, Khalil A M. Gamma Irradiation of Treated Waste Rubber Powder and Its Composites with Waste Polyethylene[J]. Journal of Vinyl & Additive Technology, 2011, 17(1): 58-63.
- [9] Shanmugharaj A M, Kim J K, Ryu S H. UV Surface Modification of Waste Tire Powder: Characterization and Its Influence on the Properties of Polypropylene/Waste Powder Composites[J]. Polymer Testing, 2005, 24(6): 739-745.

收稿日期: 2015-08-16

## Application of Reclaimed Rubber and Activated Rubber Powder in the Sidewall Compound of Cycle Tire

LU Na, XIN Zhenxiang

(School of Polymer Science and Engineering, Qingdao University of Science and Technology, Qingdao 266042, China)

**Abstract:** In this study, waste tire rubber powder was modified and activated by activator 450, and the application of reclaimed rubber and activated rubber powder in the sidewall compound of cycle tire was investigated. The experimental testing results showed that, with the increase of the addition amount of activated rubber powder, the hardness and tensile strength of the vulcanized rubber increased firstly and tended toward stable values. With more reclaimed rubber in the compound, the elongation at break and tear strength were higher. However, the energy consumption of the production for activated rubber powder was lower than that of reclaimed rubber. The use of reclaimed rubber and activated rubber powder should be rationally utilized.

**Key words:** reclaimed rubber; activated rubber powder; cycle tire; sidewall compound

### 玲珑轮胎推出全球首创雨季专用轮胎

中图分类号: TQ336.1 文献标志码: D

山东玲珑轮胎股份有限公司采用最新技术自主研发的玲珑、利奥、山玲、邦驰四大品牌CROSS-RAIN系列雨季专用轮胎KTD101产品于2016年5月上市。

CROSS-RAIN系列雨季专用轮胎是玲珑轮胎专门针对长江以南地区梅雨季节客货车的需求开发的。产品的最大亮点是采用3D立体技术,用全新三维立体字标示,打造出专属外观;人字形变角度花纹沟结构赋予轮胎优异的排水、排泥、排石性能以及驱动性能、干湿路面抓着性能、耐磨性能,避免雨天外在不利因素对轮胎行驶的干扰,使车辆驾驶更安全、更省油。

(余 雯)

### 双星开发新型公交车轮胎

中图分类号: TQ336.1 文献标志码: D

双星集团中央研究院针对公交车时速较低、频繁起停的特点,大胆突破,积极创新,以“高端、高差异化、高附加值”为标准,开发设计了8R22.5公交车轮胎新产品。

双星8R22.5公交车轮胎胎侧采用加厚设计,能够有效保护胎侧,防撞防擦,适应公交运输环境;采用加强带束层,确保轮胎负荷能力和安全性;使用专用耐磨胶料配方和花纹设计,提高轮胎的耐磨性能;成品轮胎各项性能满足公交车专用轮胎要求。经过3个月道路试验,客户反馈产品性能优越。目前该产品已顺利上市,并开始批量订货。

(余 雯)

欢迎向《橡胶科技》《橡胶工业》《轮胎工业》投稿