

表2 成品轮胎耐久性测试结果

项 目	正常生产轮胎		试验轮胎	
	1 <sup>#</sup>	2 <sup>#</sup>	1 <sup>#</sup>	2 <sup>#</sup>
累计行驶时间/h	111.88	106.67	112.12	123.20
测试结束状况	轮胎爆破	肩部脱层	肩部脱层	轮胎爆破

有所提高,试制轮胎符合产品设计和工艺生产要求。试验轮胎装车路试4个月,行驶8万km,未出现漏气、胎里露线和胎侧脱层等质量问题。

4 结 论

轮胎内衬层经过辐照预硫化,胶料(未热硫化)的硫化特性、拉伸强度、拉伸伸长率和胶片粘合性能等变化不大;胶料的焦烧时间缩短,门尼粘度升高,胶层间渗透流动减弱;轮胎内衬层部件在

生产中的尺寸稳定性和轮胎承载均匀性能提高;有效防止气密层胶料向钢丝帘线迁移而产生轮胎使用早期病象,轮胎耐久性能 and 安全性提高。

参考文献:

[1] 何小海,董毛华,谢春梅. 电子束辐射硫化的原理及应用[J]. 轮胎工业,2010,30(1):42-43.  
[2] 鲍矛,矫阳,康兴川,等. γ射线辐射预硫化天然橡胶的研究[J]. 同位素,2008,21(2):114-116.  
[3] 刘磊,郭磊,李佰发,等. 轮胎内衬层过渡层的辐射预硫化研究[J]. 橡胶科技,2012,10(9):27-29.  
[4] 李淑凤,陆永俊,矫阳,等. 辐照预硫化在子午线轮胎生产中的应用[J]. 轮胎工业,2008,28(12):742-746.

第19届中国轮胎技术研讨会论文(三等奖)

Application of Electron Beam Radiation Pre-vulcanization in Production of Transitional Layer of Truck and Bus Radial Tire

LI Peng, WANG Peibin, SUN Baoyu, LIU Qian  
(Triangle Tire Co., Ltd, Weihai 264200, China)

**Abstract:** The application of electron beam (EB) radiation pre-vulcanization in the production of truck and bus radial tire transitional layer was investigated. The experiment results showed that, when the transitional layer was pre-cured by EB radiation, the modulus at 100% elongation, tensile strength and elongation at break of the compound had little change. For the same thickness sample, with increasing of radiation dose, the Mooney viscosity increased fast at first, then slightly decreased, and the scorch time was shortened quickly to a stable value. With the same radiation dose, the samples with different thickness had a different Mooney viscosity and scorch time. It was found by the analysis of the compounds on shoulder section that, with suitable radiation dose for the transitional layer of 12R22.5 truck and bus radial tire, the pre-vulcanization layer had lower flowability and permeability, and the endurance performance and uniformity of the finished tire were improved.

**Key words:** truck and bus radial tire; transitional layer; electronic beam radiation; pre-vulcanization

玲珑轮胎拟扩大泰国投资

中图分类号:TQ336.1;U463.341 文献标志码:D

泰国投资促进委员会表示,全球多家轮胎公司2016年在泰国增加投资,其中,山东玲珑轮胎股份有限公司拟增资建立一个轮胎测试中心以及一个橡胶复合料生产工厂。

玲珑轮胎称其正策划实施泰国玲珑第3期复

合橡胶项目,把轮胎供应链前移。泰国玲珑3期工厂建设计划投资规模约7亿美元(合200亿泰铢)。这家公司拟运用先进工艺和设备,生产具有一流品质的绿色环保产品,增强企业竞争力与可持续发展能力。玲珑轮胎自2014年在泰国投资设厂以来,已持续投资数亿美金,完成其工厂1和2期建设。

(摘自《中国化工报》,2017-01-26)