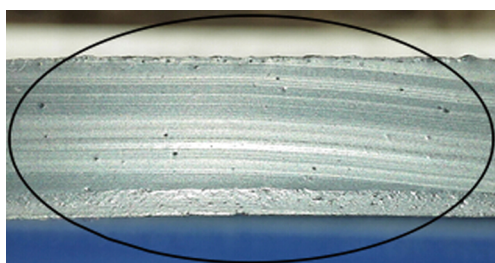


(a) 三段混炼工艺



(b) 四段混炼工艺

图1 胎面挤出断面气孔对比

3 结语

通过对传统胎面胶三段混炼工艺增加一段,生产的胎面胶料的炭黑、白炭黑分散度等级和分散性指数均有提升,胶料的流动性提高,相应地物理性能提升。

胎面部件在车间挤出时,由于胶料的流动性提升,挤出胎面的断面气孔率降低,成品轮胎的胎面稳定性能得到提升,轮胎外观及胎面整体的耐磨性能得到保证,提高了成品轮胎的市场竞争力。

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Optimization on Mixing Process to Reduce Porosity in Tread

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Abstract: The effect of optimized mixing process on the porosity in tread of steel-belted radial tire was experimentally investigated. The results showed that, compared with conventional three-step mixing process, the carbon black dispersion status and dispersion index of the tread compound with four-step mixing process were higher, the flowability of the compound and the physical properties of the vulcanizates increased, the porosity in tread cross-section was reduced, and the tread stability, appearance quality and wear resistance of the finished tire were improved.

Key words: steel-belted radial tire; tread; mixing process; porosity; carbon black dispersion

一种超低断面彩字轮胎及其制备方法

中图分类号:TQ336.1 文献标志码:D

由赛轮金宇集团股份有限公司申请的专利(公开号 CN 106032102A, 公开日期 2016-10-12)“一种超低断面彩字轮胎及其制备方法”,涉及的超低断面彩字轮胎包括内衬层、胎体、带束层、冠带条和胎面。胎面分为分型区、字体设计区和轮辋着合区。字体设计区由胎侧胶、设置在胎

侧胶内的彩胶、用于覆盖彩胶的非污染胎侧胶以及与胎侧胶连接的耐磨胶组成。本发明不但能使超低断面轮胎在胎侧部位生产出彩色字体,外观炫丽,而且产品的内部材料分布合理,性能优异;通过优化彩色胶料配方设计,彩色胶料外观颜色亮丽,且与周围黑胶粘合效果好,不易产生脱层等质量问题。

(本刊编辑部 李静萍)