

性能的统一规定进行成品轮胎通过噪声性能试验。试验条件见表 1。

产品在荷兰 RDW 公司进行通过性噪声测试,速度为 $80\text{ km}\cdot\text{h}^{-1}$,噪声测试A计权声压级

为 70 dB,符合欧盟标签法对轮胎噪声的要求。

3 结语

试制的低噪声轮胎外缘尺寸、强度性能、脱圈阻力、耐久性能和高速性能均符合国家标准要求。产品通过性噪声符合欧盟标签法噪声要求,下一步将继续在轮胎滚动阻力和抗湿滑性能方面开展工作,进一步提高轮胎质量。

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Design of 205/55R16 Low Noise Tire

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Abstract: The design of 205/55R16 low noise tire was described. In the structure design, the following parameters were taken: overall diameter 631 mm, cross-sectional width 227 mm, overall diameter swell ratio 1.001 6, cross-sectional width swell ratio 0.942 7, height of running surface 10.6 mm, bead diameter at rim seat 404.2 mm, bead width at rim seat 178 mm, low noise pattern optimized through pattern experiment using smooth tread tire, block/total ratio 69.26%, and total number of pitches 67. In the construction design, the following processes were taken: three-formula and four-piece extruded tread, 2 layers of 1110dtex/2-100DSP dipped ployester cord for carcass ply, 2 layers of 2×0.3HT steel cord for belt ply; using single stage building machine to build tires and type-B curing press to cure tires. It was confirmed by the tests of finished tire that, the peripheral dimension, strength performance, bead unseating resistance, endurance performance and high speed performance met the requirements of national standard, and the tire noise level met the requirements of European legislation.

Key words: passenger car radial tire; low noise; structure design; construction design

国内外简讯 3 则

△2014 年 6 月 24 日,延长石油西北橡胶有限公司年产 800 万条半钢子午线轮胎生产线建成投产,填补了陕西半钢子午线轮胎生产空白。该项目总投资 10 亿元,引进了四复合挤出机、液氮硫化机等世界先进设备,技术达到国际先进水平。至此,陕西省子午线轮胎生产能力达到1 000万条。

(本刊讯)

△2014 年 7 月 21 日,青岛双星橡塑机械有限公司与德国 Harburg-Freudenberger 机械有限公司(简称“HF 集团”)在德国签署了“全钢液压式双模

轮胎定型硫化机”合作协议,协议期限 10 年。此次合作,青岛双星橡塑机械有限公司将作为 HF 集团在亚洲独家合作研发生产和销售该装备的战略伙伴, HF 集团将提供产品技术、制作工艺、控制软件、质量管理、保养服务等技术支持和培训。

(本刊讯)

△横滨轮胎公司 Geolandar H/T G056 系列新一代轮胎产品于 2014 年 9 月 1 日上市,共有 38 个规格,轮辋直径为 15~30 英寸的 P-公制和 LT-公制轮胎,适用于轻型载重汽车和 SUV。

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