

与胎趾平台对应部位连接处加开排气孔的改造硫化模具后连续生产4个月, 未出现胎趾平台裂缝的轮胎。

3 结语

全钢子午线轮胎胎趾平台裂缝的原因为硫

化模具胎趾对应部位排气不畅。通过将硫化模具钢棱圈斜面与胎趾平台对应部位的直线连接改为曲线连接和/或连接处开设排气孔, 有效解决了轮胎胎趾平台裂缝问题, 大大提高了成品轮胎的外观合格率。

Root Causes Analysis of Bead Toe Cracking of TBR Tire and Corrective Actions

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Abstract: In this paper, the root causes of bead toe cracking of steel radial tire were analyzed. It was found that the key issue was the poor air exhaust in the position of mold to form bead toe. Based on the analysis, arc connection was used to replace the straight line connection between the slope of steel rim molding position and the platform of bead toe molding position. Air vent holes were designed in the connection part of the mold to improve the air exhaust during the molding process.

Keywords: steel radial tire; bead toe; crack; steel rim



信息·资讯

全球轮胎帘线市场复合年增长率高达9.1%

全球产业分析公司 (GIA) 的最新报告显示, 在技术进步和新的发展机遇推动下, 到2020年全球轮胎帘线市场规模将超过500万t, 复合年增长率将高达9.1%。

GIA认为, 子午线轮胎的推广使用导致高强度钢丝帘线需求量持续增大。替换轮胎尤其是商用车替换轮胎需求量的强劲增长、环保法规和燃油效率要求的日益严格推动了帘线市场的增长。轮胎对使用寿命、滚动阻力、成本竞争

力和轻量化要求的提高拉动了对新型轮胎帘线材料的需求。钢丝帘线制造商致力于使用高强度钢丝和钢丝较少的帘线结构, 使钢丝帘线轻量化。特别值得注意的是, 钢丝与各种合成纤维如尼龙纤维、聚酯纤维、芳纶纤维和人造纤维并用的情况日益普及。

亚太地区是全球最大和增长最快的帘线市场, 中国和印度的汽车市场快速发展也将带动原配轮胎用帘线需求量的增长。

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