

表4 成品轮胎耐久性能

项 目	试验轮胎	生产轮胎
行驶速度/($\text{km} \cdot \text{h}^{-1}$)	35	35
累计行驶时间/h	150	150
试验结束时轮胎状况	未损坏	未损坏

注: 充气压力830 kPa, 额定负荷3750 kg, 行驶时间超过47 h后, 每行驶10 h负荷增大10%, 负荷增大至额定负荷的150%时不再增大, 连续试验, 行驶150 h轮胎未损坏则停止试验。

崩花和掉块等现象, 使用寿命均在8个月以上。而未使用抗撕裂树脂A-100胎面胶的生产轮胎在矿山工作2个月后, 胎面大多出现裂口和掉块, 一般使

用寿命仅为4~6个月。

3 结论

与未添加抗撕裂树脂A-100的胎面胶相比, 添加3份抗撕裂树脂A-100的胎面胶硬度和拉伸强度相当, 定伸应力略低, 拉断伸长率和撕裂强度明显提高, 这有利于减少胎面出现裂口、崩花和掉块问题。使用抗撕裂树脂A-100胎面胶的矿用全钢载重子午线轮胎抗切割性能和抗刺扎性能优异, 使用寿命明显延长。除矿用全钢载重子午线轮胎以外, 撕裂树脂A-100也可以在部分工程机械轮胎中推广使用。

Application of Tear Strength Improving Resin A-100 in the Tread Compound of Mining TBR Tire

Hu Luwei, Xia Kewei, Yuan Limin, Yang Weijian, Huang Zhaoli
(Sichuan Kalevei Technology Co., Ltd., Jianyang 641400, China)

Abstract: The application of tear strength improving resin A-100 in the tread compound of mining TBR tire was investigated in this study. Compared with the tread compound without A-100, the hardness and tensile strength of the compound with 3 phr A-100 were similar, the tensile modulus was a little lower, but the elongation at tensile break and tear strength were significantly improved, which could reduce the tread quality issues such as cracking, chunking and breaking. The mining TBR tire with A-100 filled tread compound showed excellent cut resistance and puncture resistance, and had significantly longer service life.

Keywords: tear strength improving resin; mining TBR tire; tread compound; tear strength; cut resistance; puncture resistance

信息·资讯

用于防微波泄漏的硅橡胶密封材料

佛罗伊登贝格-NOK密封技术股份有限公司工艺密封件产品部开发了一种用于食品和饮料工业的硅橡胶密封材料, 这种密封材料制品在腐蚀性环境中具有优异的耐化学介质腐蚀性能和耐高温性能。

这种牌号为LZ636的硅橡胶密封材料不仅可

以生产模压制品, 而且在大量商业产品中可用于防止微波辐射泄漏的标准密封胶。

这种密封材料添加了佛罗伊登贝格-NOK密封技术公司专有的填料, 符合美国食品药品监督管理局的要求。

谢 立