

ENR40胶料。

3 结论

在不使用任何偶联剂的条件下,白炭黑在NR基体中发生明显的团聚,而在NR分子链中引入环氧基团,白炭黑的团聚情况得到了明显的

抑制,且环氧基团的含量越高,白炭黑的分散性越好。ENR/白炭黑胶料具有良好的抗湿滑性能和较低的滚动阻力;在白炭黑用量大于20份后,ENR/白炭黑胶料的压缩生热明显低于NR/白炭黑胶料,这对于高性能绿色轮胎具有重要意义。

Application of Silica in Epoxidized Natural Rubber

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Abstract: The application of silica in the epoxidized natural rubber (ENR) without coupling agent was investigated. Severe aggregation of silica was found in the natural rubber (NR), while in the ENR the aggregation was significantly reduced. In addition, the dispersion of silica could be improved by increase of the epoxidation degree. It was found that the silica filled ENR compounds exhibited good wet skid resistance and low rolling resistance. With more than 20 parts of silica, the silica/ENR compound had much lower dynamic heat build-up than carbon black filled NR.

Keywords: natural rubber; epoxidized natural rubber; silica; dispersion; wet skid resistance; rolling resistance; dynamic heat build up

信息·资讯

2018年全球轮胎帘线需求量将达167万t

全球制造业分析(GIA)公司最近发布了《轮胎帘线:全球战略商务报告》。报告中指出:得益于发展中国家汽车产业蓬勃发展对轮胎需求的增长,到2018年全球轮胎帘线市场需求量将达到167万t。

亚太地区轮胎帘线市场需求量在全球最

大、增长最快,到2018年该地区轮胎帘线需求量的年均复合增长率(CAGR)为10.8%。随着亚太地区国家基础设施的改善,子午线轮胎需求增长,尤其是重型车辆轮胎子午化进程持续,未来几年农业子午线轮胎的需求量增长,钢丝帘线市场具有良好的发展前景。

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