

从表2和3可以看出:与添加相同用量妥尔油改性的补强树脂SL-2101胶料相比,添加腰果油改性补强树脂SL-2201胶料的 M_L 和 M_H 较大,焦烧时间较短,硫化速度较快,定伸应力较大,拉伸强度较小,拉断伸长率较小,60℃和70℃时的 $\tan\delta$ 较小,动态生热较低。

随着2种补强树脂用量增大,胶料的硫化速度减慢,硬度升高, M_H 和定伸应力增大,拉伸强度和拉断伸长率减小;补强树脂SL-2101胶料焦烧时间无明显变化,补强树脂SL-2201胶料焦烧时间变短。

3 结论

(1)与妥尔油改性酚醛补强树脂SL-2101相比,腰果油改性酚醛补强树脂SL-2201对胶料的补强性能好,胶料的硫化速度较快,但加工安全性能较差。

(2)随着2种补强树脂用量增大,胶料的物理性能提高,硫化速度减慢。

(3)采用腰果油改性酚醛补强树脂SL-2201替代妥尔油改性酚醛补强树脂SL-2101时,需适当调整硫化体系,以保证胶料的硫化速度和加工安全性能。

Influence of Reinforced Phenolic Resin Modified by Tall Oil and Cashew Nut Oil on the Properties of the Bead Filler of TBR Tire

Chu Wendong

(Xingyuan Tire Group Co., Ltd., Dongying 257336, China)

Abstract: In this study, tall oil modified phenolic resin SL-2101 and cashew nut oil modified phenolic resin SL-2201 were applied in the bead filler of TBR tire. The experimental results showed that the properties of the compound were improved with increasing the content of either phenolic resin. Compared with SL-2101, the properties of the compound with SL-2201 were better. However, the curing system needed proper adjustment when SL-2201 was applied to replace SL-2101.

Keywords: tall oil; cashew nut oil; modified phenolic resin; reinforced resin; TBR tire; bead filler



信息·资讯

朗盛上调三元乙丙橡胶和橡胶助剂价格

从2014年4月1日起,德国朗盛集团Keltan品牌三元乙丙橡胶的价格每吨上涨150美元(约合人民币930元);根据产品和地区的不同,每千克橡胶助剂价格上涨0.15~1美元,此次涨价涉及所有橡胶助剂产品,包括Vulkanox防老剂、Vulkacit促进剂、粘合剂、防焦剂、增塑剂、氧化锌和DBD(N,N'-二苯甲酰胺基二苯基二硫化物)基塑解剂等特种化学品。 朱永康