

从表 8 可以看出,与充 DAE 的 SBR 胶料相比,充环保油的 SBR 胶料在综合条件和苛刻条件下均表现出更好的耐磨性能。与 ESBR 胶料相比,SSBR 胶料在综合条件下耐磨性能较好,在苛刻条件下耐磨性能稍差。

3 结论

(1)SSBR 与各种环保填充油的相容性较好,ESBR 较差。

(2)OE-ESBR 的门尼粘度随填充油密度的变化而变化;OE-SSBR 的门尼粘度随填充油中芳烃含量的增大先减小后增大。

(3)充环保油 ESBR 胶料的自粘力稍小于充 DAE 胶料,充油 SSBR 胶料则相反。

(4)与充 DAE 的硫化胶相比,充环保油 ESBR 硫化胶的定伸应力增大,拉伸强度和拉伸伸长率减小;充环保油 SSBR 硫化胶的物理性能变

化无明显规律。

(5)与充 DAE 的硫化胶相比,充环保油的 ESBR 和 SSBR 硫化胶滚动阻力减小、耐磨性能提高,充环保油的 SSBR 硫化胶抗湿滑性能提高,但充环保油的 ESBR 硫化胶抗湿滑性能稍差。

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Influence of Environment-friendly Extending Oil on Properties of SBR

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Abstract: Different kinds of environment-friendly extending oil were applied in ESBR and SSBR to replace DAE, and their influence on the properties of ESBR and SSBR was investigated. The results showed that SSBR could be easily extended by environment-friendly oil. The tackiness of environment-friendly oil-extended SSBR was improved, the physical properties of vulcanizate changed little, and the rolling resistance, wear resistance and wet skid resistance were improved. In ESBR compound, the environment-friendly oil with low aromatic content separated from ESBR. The tackiness and wet skid resistance of environment-friendly oil-extended ESBR compound were decreased.

Key words: ESBR; SSBR; environment-friendly extending oil; tackiness; compatibility

鞋底橡胶勾心结构

中图分类号: TS943. 714 文献标志码: D

由徐京诺申请的专利(公开号 CN 202233331U, 公开日期 2012-05-30)“鞋底橡胶勾心结构”, 涉及的鞋底顶端中部开设有长条状槽体, 槽体内紧密焊接有与长条状槽体形状相对应

的橡胶勾心。长条状槽体的前端至鞋前掌后部处, 后端至鞋后跟前部处。该结构简单新颖, 橡胶勾心与鞋底连接紧密, 不会来回滑动, 更不会刺穿鞋底伤及人体足部, 比现有铁心条更具弹性和韧性, 更有利于人体足部运动。

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