

(2) SBR, BR和NR硫化胶的拉伸断裂能与阿克隆磨耗量的相关性较差。

(3) 对于不同种类炭黑补强的SBR, 硫化胶的拉伸断裂能与DIN磨耗量有一定的相关性, 而与阿克隆磨耗量的相关性不明显。这说明拉伸断裂能与DIN磨耗量的相关性有一定的普适性。

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Relationships between Abrasion Property and Break Energy of Rubbers

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Abstract: Taking SBR, BR and NR as matrix, the relationship between the abrasion property and break energy of vulcanizates with different curing systems (CV, EV, SEV and EC) was investigated. The results showed that, the DIN abrasion loss had certain correlation with break energy, and the DIN abrasion loss decreased with the increase of break energy. However, for Akron abrasion loss the correlation was not obvious. The same result was obtained for SBR filled with different kinds of carbon black, which indicated that the DIN abrasion loss might have certain correlation with the break energy in general.

Key words: rubber; break energy; abrasion property; correlation

一种提高胶清橡胶性能的方法

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由海南大学申请的专利(公开号 CN 104693321A, 公开日期 2015-06-10)“一种提高胶清橡胶性能的方法”, 提供了一种提高胶清橡胶性能的方法: 离心机分离得到的胶清乳液中加入0.1~10份胶乳稳定剂熟化后, 经中空纤维柱(相对分子质量为1万~20万)滤除相对分子质量小的非橡胶组分, 浓缩得到干胶质量分数为0.1~0.5

的纯化胶清乳液; 向纯化胶清乳液中加入0.2~2份木瓜蛋白酶处理1~5 h后, 用酸凝固制得固体胶清橡胶。经改性的固体胶清橡胶的6项基本性能指标(杂质、灰分、氮和挥发物的质量分数以及塑性初值和塑性保持率)均得到显著的提高, 达到国产5#标准胶的性能指标要求。该发明的优点是工艺过程相对简单, 污染小, 提高了胶清橡胶的质量。

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