(2)橡胶相对分子质量分布指数的差异影响胶料加工性能。

(3)橡胶微观结构是影响其硫化胶物理性能的主要因素。

参考文献:

[1] 杨清芝. 现代橡胶工艺学[M]. 北京:中国石化出版社,1997.
[2] 张帅,赵素合,吴友平. 相对分子质量及端基改性对炭黑补强星形溶聚丁苯橡胶性能的影响[J]. 橡胶工业,2015,62(3):140-144.
[3] 李翔,李良萍,薛兆弘,等. 相对分子质量变化对杜仲橡胶应力-应变行为的影响[J]. 橡胶工业,2002,49(7):389-392.
[4] 张建国,文强,王永军,等. 溶聚丁苯橡胶分子量及其分布对加工性能的影响[J]. 世界橡胶工业,2013,40(7):28-29.
[5] 施良和. 凝胶色谱法[M]. 北京:科学出版社,1980.
[6] 马翠芳,李延. 凝胶渗透色谱测定液体橡胶分子量及分布方法的建立[J]. 甘肃科技,2008,24(18):15-17.

收稿日期:2019-07-01

Measurement and Analysis of Relative Molecular Weight and Its Distribution of Rubber

LI Wei, *XU Yi*, *WANG Dapeng*, *DENG Caixia*
(Triangle Tire Co., Ltd, Weihai 264200, China)

Abstract: The gel permeation chromatography (GPC) was used to test the relative molecular weight and its distribution of several common rubber, and their correlations with the Mooney viscosity and physical properties of the compound were analyzed. The results showed that, NR had a large relative weight average molecular weight and a wide relative molecular weight distribution, and the relative molecular weight distribution and Mooney viscosity of NR produced by different countries and manufacturers were quite different. The relationship between the relative molecular weight and its distribution measured by GPC and the Mooney viscosity of NR had limitations. The processability of the compound was affected by the relative molecular weight distribution index of raw rubber. The microstructure of rubber was the main factor affecting the physical properties of the vulcanizate.

Key words: natural rubber; polybutadiene rubber; butadiene styrene rubber; relative molecular weight; relative molecular weight distribution; Mooney viscosity; gel permeation chromatography

米其林与大陆拟成立合资公司

米其林宣布,该公司将与德国大陆集团、SMAG共同成立一家合资企业,运营天然橡胶供应链服务业务。该企业将于2019年内开始运营。

根据米其林在其官网发布的公告,此次参与合资的3家企业分别是米其林、大陆集团和SMAG。其中,SMAG为提供农业软件解决方案的出版商,合资的企业将开发一款名为Rubberway的移动应用程序。

据了解,Rubberway是给轮胎制造商提供天然橡胶监控数据的数据平台,让企业能够收集天然橡胶数据,并识别和优化天然橡胶供应链。米其林表示,现在有约600万人、10万经销商、500多家工厂在从事天然橡胶供应行业,导致渠道极为复杂,Rubberway是为了理顺供应链关系而创立的。

据悉,米其林将为合资企业提供应用程序的使用权利,以及该领域的部署经验,通过这种方式为轮胎制造商和设备制造商铺平道路。通过合资企业,Rubberway将变成一个独立的解决方案,让所有天然橡胶用户都可以使用该平台,从而使天然橡胶供应链更加透明。

(摘自《中国化工报》,2019-09-23)