

- [2] Ma Y, Wu Y P, Zhang L Q, et al. The Role of Rubber Characteristics in Preparing Rubber/Clay Nanocomposites by Melt Compounding[J]. Journal of Applied Polymer Science, 2008, 109(3): 1925-1934.
- [3] 李培耀. 非极性聚合物/OMMT 纳米复合材料的结构与性能研究[D]. 北京: 北京化工大学, 2009.
- [4] Arroyo M, Lopez-Manchado M A, Valentin J L, et al. Morphology/Behaviour Relationship of Nanocomposites Based on Natural Rubber/Epoxidized Natural Rubber Blends [J]. Composites Science and Technology, 2007, 67 (7/8): 1330-1339.
- [5] Cataldo F. Preparation and Properties of Nanostructured Rubber Composites with Montmorillonite [J]. Macromolecular Symposia, 2007(247): 67-77.
- [6] Jia Q X, Wu Y P, Wang Y Q, et al. Enhanced Interfacial Interaction of Rubber/Clay Nanocomposites by a Novel Two-step Method[J]. Composites Science and Technology, 2008, 68(3/4): 1050-1056.
- [7] 宋国君, 高利, 李培耀, 等. NR/BR/OMMT 纳米复合材料的结构与性能研究及其在轮胎胎面胶中的应用[J]. 现代化工, 2010, 30(1): 60-62.

收稿日期: 2012-07-20

Application of Clay in Truck and Bus Radial Tire

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Abstract: The application of two kinds of clay[organo-montmorillonite (OMMT) and nano-clay] in the inner liner compound and rim cushion compound of truck and bus radial tire was investigated. The results showed that, for inner liner compound, by using clays instead of part of carbon black N660, the Mooney viscosity decreased, the Mooney scorch time was prolonged. The t_{90} of OMMT filled compound was shortened, the physical properties of OMMT filled vulcanizate decreased and the compression fatigue temperature rising decreased after the addition of Si69. The physical properties and air tightness of nano-clay filled inner liner vulcanizate changed slightly, and the compression fatigue temperature rising decreased. For rim cushion compound, by using 10 phr OMMT instead of carbon black N234 by equal weight, the Mooney viscosity, t_{90} and heat build-up decreased, the physical properties improved, but the tensile permanent set became larger and the wear resistance reduced.

Key words: clay; truck and bus radial tire; inner liner compound; rim cushion compound

万力轮胎亮相美国 SEMA 轮胎展受青睐

中图分类号: TQ336.1 文献标志码: D

2012 年 10 月 30 日—11 月 2 日, 一年一度全球知名的改装车和零配件大型展览会 SEMA 轮胎展在美国拉斯维加斯会展中心盛大开幕, 来自世界各地超过 1 500 家的著名汽车配件企业及 6 万名采购商和消费者参展。

在本次展会上, 广州市华南橡胶轮胎有限公司展示了乘用车、轻型载重、雪地、载重全系列轮胎产品, 尤其是最新型的泥地轮胎和全地形轮胎等新花纹轮胎, 凭借其粗犷时尚的外观设计、优异的越野、制动和牵引性能获得高度的赞誉及青睐。

通过此次展会, 众多海外客户进一步了解到

万力轮胎产品的优质、时尚及先进性, 极大地增强了海外尤其是美洲经销商对万力轮胎产品的信心, 同时也让该公司掌握了轮胎产业最新的市场信息和产品信息, 奠定 2013 年万力轮胎销售飞跃发展的坚实基础。

SEMA 轮胎展是中国企业进入北美汽配市场的必经之路, 又称为专业设备市场联盟, 是北美最具实力的汽车、摩托车配件贸易网络, 在 40 多年的发展过程中, 积累了大量的优质市场资源。SEMA 轮胎展的成员公司遍布全球 100 多个国家, 数量达到 6 400 多家, 这些公司每年在全球的销售额超过 270 亿美元。

(广州市华南橡胶轮胎有限公司 陈晓帆)