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Study on Carbon Black/NR Compound Prepared by Latex Agglomeration under Pressure

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Abstract: The carbon black/NR compound was prepared by latex agglomeration under pressure, and the microstructure, thermal stability, curing characteristics and physical properties of the compound were investigated. The results showed that, the dispersion of the carbon black with high pressure homogenizer was better, the settling amount was small, and storage stability was good; the carbon black was dispersed stably in NR latex. Compared with that of pure NR and carbon black/NR without agglomeration process, the Mooney viscosity of agglomeration modified carbon black/NR compound was higher, the dispersion was better, and thermal stability was improved. Compared with those of carbon black/NR vulcanizate prepared by traditional mechanical blending method, the modulus, tensile strength and tear strength of agglomeration modified carbon black/NR vulcanizate were increased.

Key words: natural rubber latex; carbon black; dispersion; agglomeration under pressure

软控股份计量理化检测中心通过 国家认可委实验室现场评审

中图分类号: F27 文献标志码: D

2010 年 11 月 26—28 日, 中国合格评定国家认可委(以下简称 CNAS)现场评审专家组一行来到软控股份有限公司, 对公司计量理化检测中心的实验室认可申请进行现场评审, 并一致同意向 CNAS 推荐认可。

专家组通过现场观察、现场试验、抽样检测、查阅相关文件、座谈、抽查仪器设备档案等形式, 对组织机构、质量体系、标准方法、仪器设备、样品管理、人员操作等方面逐项进行检查考核, 以验证检测中心的检测/校准能力是否满足

认可准则要求, 并对 3 名授权签字人员进行考核评定。现场试验包括检测、校准两大类共 37 个分项目, 检测中心 10 人参加了 29 项现场试验, 所进行的现场试验项目全部合格, 其余项目以查阅记录、现场提问方式进行, 试验覆盖申请认可的全部项目。

检测中心主任杭柏林表示, 上述项目通过 CNAS 的认可, 意味着检测中心的检测/校准能力已达到较高的水平; 今后, 检测中心将在各项工作中严格遵循 CNAS 的要求, 不断满足用户需求, 努力建成行业一流、国内先进、国际认可的实验室。

(软控股份有限公司 李令新)