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Study on Reclaiming of Ground Radial Tire Rubber

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Abstract: The ground radial tire rubber was reclaimed by self-prepared reclaiming agent, and the effects of the particle size of ground radial tire rubber, additon level of reclaiming agent and softener on the physical properties of reclaimed rubber were investigated. The results showed that, with increase of the particle size of ground radial tire rubber, the tensile strength and elongation at break of reclaimed rubber decreased, while the Shore A hardness changed a little. With the addition level of reclaimed agent increasing, the Mooney viscosity of reclaimed rubber decreased, and the tensile strength and elongation at break firstly increased and then decreased. With the addition level of softener increasing, the tensile strength and elongation at break of reclaimed rubber firstly increased and then decreased. The optimized reclaiming effect could be obtained when the particle size of ground radial tire rubber was 0.45 mm, and addition levels of reclaimed rubber, reclaiming agent and softener were 100, 7 and 3 phr respectively. The addition level of reclaimed rubber had significant effect on the physical properties of NR compound.

Key words: ground radial tire rubber; reclaiming agent; reclaimed rubber; NR compound

世界最大三元乙丙橡胶项目落户上海

中图分类号:TQ333.4 **文献标志码**:D

2012 年 5 月 28 日,上海中石化三井弹性体有限公司正式设立。中国石油化工股份有限公司(以下简称中国石化)称,该公司将在上海化学工业区投资约 20 亿元新建 1 套采用茂金属催化剂、工艺最先进、全球规模最大的年产 7.5 万 t 三元乙丙橡胶(EPDM)生产装置,预计 2014 年一季度开始商业运行。

据介绍,该公司由中国石化与日本三井化学株式会社(以下简称三井化学)按 50∶50 的股比出资设立,注册资本约 6.3 亿元,主要业务为生产及销售 EPDM 产品。

中国石化称,三井化学的茂金属催化剂溶液法聚合技术是目前世界上最先进的 EPDM 生产技术,在产品质量和成本竞争力上皆具优势。上海中石化三井弹性体有限公司将力争早日建立生产供应体系,尽快满足中国 EPDM 市场快速增长的需求。

据了解,双方于 2009 年 12 月签订了合资项目意向书,共同开展项目可行性研究工作,近期通过了中国政府相关部门的审批,正式成立合资公司。

据悉,2011 年中国 EPDM 表观消费量为 23.74 万 t,进口量为 22.3 万 t,进口依存度居高不下。中国石化预计,随着中国汽车市场的快速发展以及在铁路等社会公共设施领域投入的增加,EPDM 产品的市场需求将大幅增加。

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