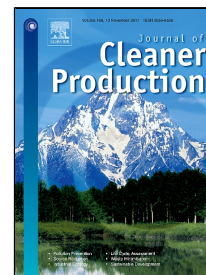


Accepted Manuscript

Complete replacement of carbon black filler in rubber sole with CaO embedded activated carbon derived from tannery solid waste



P. Yuvaraj, J. Raghava Rao, N. Nishad Fathima, N. Natchimuthu, R. Mohan

PII: S0959-6526(17)32189-3
DOI: 10.1016/j.jclepro.2017.09.188
Reference: JCLP 10693
To appear in: *Journal of Cleaner Production*
Received Date: 26 June 2017
Revised Date: 14 September 2017
Accepted Date: 19 September 2017

Please cite this article as: P. Yuvaraj, J. Raghava Rao, N. Nishad Fathima, N. Natchimuthu, R. Mohan, Complete replacement of carbon black filler in rubber sole with CaO embedded activated carbon derived from tannery solid waste, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.09.188

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Tannery limed fleshing waste pyrolyzed and converted into activated carbon for filler application.
- Presence of CaO in activated carbon conformed by XRD and SEM analysis.
- Carcinogenic filler Carbon black was replaced by prepared CaO embedded activated carbon (CaO-AC).
- CaO-AC gives better vulcanized rubber compared by involving ionic crosslink.
- Physical properties of both carbon black and CaO-AC fillers gives required properties of sole

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات