

Análisis de Propiedades Mecánicas de Piezas Fabricadas con Caucho Reciclado [

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text (article)

Analítica

Out-of-use tires represent a serious problem worldwide due to environmental pollution and public health. Currently, in Mexico, nearly 40 million tires are discarded each year in landfills and clandestine dumps, of which the majority are burned or accumulated in the open air and only a low percentage is treated and recycled properly to be used later in the manufacture of tires. products. In the state of Tamaulipas, Mexico, traditional tire management and treatment methods are generating environmental problems affecting the soil, air and water. Therefore, it is necessary to consider sustainable methods of collection, treatment and disposal of waste tires to contribute to the decrease in environmental pollution. The present research presents a feasibility study in the production of parking bumpers and house tiles with the main objective of motivating the manufacturing industry in Tamaulipas to venture into other viable and economically attractive markets, such as the recycling of rubber for manufacturing parts for the national market. The rubber granulation used was 3 and 1 mm, while the percentage of resin as a binder was (10, 15, 20, 25 and 30%). The study involves the measurement of the compressive strength and the characterization using a stereoscopic microscope of the type of joint of the mixture. The results show that the higher the resin content and the smaller the particle size, the higher the compressive strength

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