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Recycle polyurethane foam, shoe sole, elastomeric waste redefined to reuse

Organizing efforts for disposal of waste polymer products many theoretical & academic ideas have presented. Rubber and Polymer waste may be categorized as, a) finishes product equivalent materials but balance after useful portions. b) the finished Product may not be complying with respect to specifications or properties. c) raw materials were unsuccessful to be converted into finished goods. Polyurethane products such as foams (rigid, flexible, semi-rigid) elastomers (hard/soft), microcellular products and shoe sole scrap are very large contributors, which may pose threat to the

environment due to improper disposal methodology. waste product may contain in varied proportion: i) entrapped blowing agents, ii) catalysts with metallic contents, iii) excess of isocyanates in the form of isocyanates or polyurea structures. Usual methods of addressing the issue: landfill, pyrolysis/glycolysis, incineration. We propose the best alternative: restructure the scrap by grinding/pulverizing, desired sizing form mix and mold with bio-binder/MDI system redefine with mold to the new product, check and put in use.

Biography

Jayant Khadilkar is MSc in organic chemistry from Institute of Science, Mumbai, India. He is managing director of Jay Elastomers Pvt Ltd. where cast elastomer industrial products are manufactured and exported. He has presented 5 papers in International conferences such as CPI, USA. He is contributory to development of radiation resistant wheel linings, polar satellite. He is launching vehicle holding clamp linings. He has credit of development of solvent, resistant and acid/alkali resistant formulations.

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