

Cure characteristics and hardness of recycled latex catheter (LCr) filled with Standard Malaysia Rubber (SMR L) compounds

Abstract

The effect of cure characteristics and hardness of LCr filled SMR L compound were investigated. The size of LCr were 20 - 25 mm in range. Six compounds; 0, 5, 15, 25, 35 and 50 per hundred rubber (phr) of LCr were prepared by using two roll mill at room temperature. Cure characteristics such as scorch time, t_2 , cure time, t_{90} , minimum torque, ML, maximum torque, MH, and cure rate index (CRI), and hardness of LCr filled SMR L were examined using rheometer. Result indicated that, all results for t_2 , t_{90} , ML and MH shows the decrease with increasing in filler loading. CRI shows the increasing value with increasing LCr loading. Hardness, Ha value increase slightly with increasing LCr loading.

Keywords

And hardness; Cure characteristic; Recycled LC; SMR L