electrical and properties of carbon black loaded nr sbr rubber blends

mabrouk kamel ramadan almansy .

ABSTRACT Rest .1’esis’tan”t_rub~ blends at 50 pbr* fran na1iural .1’ll1>be:l:l om> end 50 pbr from s1iyrene -- bu’llf>die116rubber (Smi - l502) bave been prgpered according 1io 1ihe stendard 1iecbniques. These blends were incurpora1ied wi1ih differentconcentra1iions end 1iypes at carbon black end sUbJected 1io electirical and 1ihermal conduc1iivi1iies measurements~ Forde conduc1iiviiiy , t7” , i1i was found iihaii c-r’ depends on the carbon black concen1iraiiion , F , according to 1ihe6D1pirical formula on the form.In (d’1?) = In ~o&/crK) I [1 + exp ((”1’;- t)~F)] wb$re