

Study of Adhesive Properties of Maleated Polyethylene wax

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The adhesive properties of polyethylene wax grafted by maleic anhydride (MAH) have been investigated. The attention has been paid to the change of adhesive property of MAH grafted polyethylene wax containing various level of the grafted MAH. The value of the interfacial energy in adhesive joint of polyethylene wax-grafted maleic anhydride (PE wax-g-MAH) with polyvinyl acetate (PVAc) decreases. The interfacial work of adhesion of PE wax-g-MAH to PVAc significantly increases with the growing content of the MAH in the PE wax-g-MAH, mainly in its polar component. The mechanical work of adhesion of PE wax-g-MAH to PVAc enhances as well. The shear strength of joint between PE wax-g-MAH and the aluminum increases significantly with the content of the grafted MAH.