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Plasma modification of PET foils with different crystallinityTinneke Jacobs¹, Nathalie De Geyter¹, Rino Morent¹, Christophe Leys¹¹Faculty of Engineering, Ghent University, Gent, Belgium

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Polymers are commonly used in industry for packaging and protective coatings but often have low surface energies. Therefore surface modification is usually needed to improve wettability, printability and adhesion properties. In the past few years plasma surface treatment of polymers to modify their surface properties has been extensively studied and different treatment conditions have been investigated.

This study focuses on plasma treatment of several types of commercially available PET foils with a different degree of crystallinity. The PET foils are treated by a DBD discharge operating in air at medium pressure. The effect of the different crystallinity on the treatment efficiency is studied. Also the ageing behaviour of the plasma treated samples with different crystallinity is investigated.

Keywords

PET foil

plasma treatment

crystallinity

ageing