Effects of Accelerated Ageing on the Mechanical Properties of PP/ABS blend

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The large amount of waste from polymers is a growing environmental problem that has to be managed in order to achieve a more sustainable society. Since extraction of raw material is the most environmentally affecting part of polymer production, it would be beneficial for the environment if recycled polymeric material to a greater extent could replace virgin material. However, further knowledge about the properties of recycled polymeric materials is needed in order to find appropriate and useful applications and increase the use of these materials. One appropriate investigation procedure for polymer materials would be the accelerated ageing. In this method, the material is exposed to thermo-oxidative ageing, simulating the usage phase. In this study, effects of accelerated ageing on the mechanical properties of blends of polypropylene (PP) and poly (acrylonitrile-butadiene-styrene) (ABS) have been investigated.

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