

Prof. Dr. Dirk Burth
University of Applied Sciences; DE-Munich



RECYCLABILITY OF LABELS: THE EFFECT OF RESINS AND STYRENE BLOCK COPOLYMERS ON THE PROPERTIES OF PE- AND PP-POLYMERS

ABSTRACT

Under the PPWR, packaging must be designed to be recyclable. This also applies to all packaging accessories, such as labels and adhesives. In the case of labels, it is possible for them to be removed from the packaging during the recycling process, or for the face materials and adhesives used not to impair the quality of the recycled material.

Research is therefore being conducted into how the constituents of HMPSA affect the recycling of polyethylene and polypropylene.

The study examines how the constituents of HMPSA affect the recycling of polyethylene and polypropylene. In particular, it was investigated the effect of C5, C9 and rosin resins, as well as the effect of SIS polymers, on the recycling properties.