

Renewable materials conference

Cork Polymer Compounds

Amorim Cork Composites is a specialist in recycling, reusing and reinventing entirely natural and organic materials. We incorporate several raw materials in our production process to innovatively respond to competitive market demands, by creating cutting-edge procedures to bring unique products to the final consumer.

There has been plenty of interest in using bio-based and bio-friendly fillers in the processing of thermoplastic polymers. Cork is a carbon-negative raw-material that has many advantages comparing to traditional polymer fillers. These include, safety in handling, low density, excellent insulating properties, shock absorption capability and high volume of filling in the composite. The present work shows how cork can be combined with a huge variety of polymers - from biopolymers (PLA or TPS) to recycled polymers (HDPE), polyolefins (PP and PE) and elastomeric options (SBS and TPU) – adding unique features to the final product.

Cork polymer compounds are expected to be very attractive for the automotive/mobility industry and will certainly be useful in many other polymer applications such as packaging or footwear.