

Composite material, processes for the production thereof, and the use thereof

Abstract

The present invention relates to a composite material, to a process for the production thereof and to the use thereof, where one layer or film of the composite material is a polyolefin-containing decorative upper layer or film (1) with a thickness of from 60 to 600 μm which comprises a polyolefin having an MFI value (230/2.16 kg) of from 3 to 9 g/10 min or a polyolefin mixture having an MFI value (230/2.16 kg) of from 3 to 9 g/10 min and a certain composition. The adhesion-promoting intermediate layer or film (2) containing no fillers or having a low filler content and having a thickness of from at least 0.3 to 100 μm comprises a propylene graft polymer which contains reactive groups and has an MFI value (230°C/2.16 kg) of from 3 to 9 g/10 min or a functionalized propylene graft polymer having an MFI value (230°C/2.16 kg) of from 3 to 9 g/10 min. An underlying lower layer or film (3) having a low filler content or containing no fillers and having a thickness of from 0.3 to 100 μm comprises an ethylene-vinyl alcohol copolymer (EVOH) having a value (230°C/2.16 kg) of from 3 to 9 g/10 min and having an ethylene content, based on the ethylene-vinyl alcohol copolymer, of from 25 to 48% by weight.

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