

Abstract

POLYOLEFIN GRAFT COPOLYMER/POLYAMIDE BLEND

A composition comprising, by weight, based on the total weight of the composition; (a) 1% to 98% of a graft copolymer comprising a backbone of a propylene polymer material having graft polymerized thereto monomers selected from the group consisting of (i) at least one vinyl aromatic compound and an unsaturated carboxylic acid and (i) at least one vinyl aromatic compound and an anhydride of an unsaturated carboxylic acid or its acid form, wherein the polymerized monomers are present in an amount from 10 to 95 parts per hundred parts of the propylene polymer material; (b) 2% to 10 99% of at least one polyamide resin; and (c) 5% to 90% of a broad molecular weight distribution propylene polymer material having a weight average molecular weight to number average molecular weight ratio from 5 to 60. The composition may also optionally include (d) 2% to 30% of at least one rubber component selected from the group consisting of (i) an olefin copolymer rubber, (ii) a monoalkenyl aromatic hydrocarbon-conjugated 15 diene block copolymer, and (iii) a core-shell rubber; and (e) an additive to improve the scratch and mar resistance of the composition selected from the group consisting of (a) 0.5% to 10% of at least one lower molecular weight ethylene polymer or a functionalized derivative thereof, having an average molecular weight of 300 to 5000, and (b) a combination of 0.5% to 10% of at least one of the low molecular weight ethylene polymers 20 in (a) and 0.5% to 10% of inorganic microspheres.



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