

ABSTRACT OF THE DISCLOSURE

SILANE-CROSSLINKED POLYOLEFIN RESIN COMPOSITION AND
INSULATED CABLE COVERED WITH THE COMPOSITION

A silane-crosslinked polyolefin resin composition comprising (1) a base polymer, (2) a carrier polymer A incorporated with an organic unsaturated silane represented by the formula $RR'SiY_2$ and a free radical generating agent and (3) a carrier polymer B incorporated with a silanol condensation catalyst and an antioxidant, wherein the base polymer contains a linear, medium to low density polyethylene with a degree of dispersion (M_w/M_n) of 4 or more, has an average density of $0.915 \text{ g/cm}^3 - 0.935 \text{ g/cm}^3$ and shows a heat deformation percentage (JIS K 6723) after melt-kneading of not more than 40%.

The resin composition is excellent in extrudate surface smoothness and heat resistance and is suitably used as the covering material for insulated cables which does not need the water-crosslinking step.

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