CLAIMS

1. Multilayer strip (1) comprising at least:
   - an essentially mica-based layer (3);
   - a polymeric layer (2) comprising 60 to 85 % by weight of a mineral filler (4) and 15 to 40 % by weight of a polymer.

~~2. The multilayer strip according to claim 1,~~

wherein said polymer is selected from the group consisting of polyolefin, polyester, polyamide and halogenated polyolefins.

~~3~~2. The multilayer strip according to claim ~~2~~1, wherein the polymer is a polyolefin selected from the group consisting of polyethylene, polypropylene, copolymer of propylene and copolymers of ethylene and at least one alpha-olefin comprising 3 to 8 carbons.

~~4~~3. The multilayer strip according to claim ~~3~~2, wherein the polyolefin is a polyethylene or a mixture of polyethylenes of different densities.

~~5~~4. The multilayer strip according to claim ~~4~~3, wherein the polyethylene comprises a HDPE.

~~6~~5. The multilayer strip according to any of the preceding claims, wherein the essentially mica-based layer is a layer of mica paper optionally impregnated with a resin.

~~7~~6. The multilayer strip according to claim ~~6~~5, characterized in that the impregnating resin of the mica layer is silicone-based.

87. The multilayer strip according to one of the preceding claims, wherein the essentially mica-based layer (3) is laminated to the polymeric layer (2) by means of an adhesive, said adhesive preferably being an adhesive of silicone type.

98. The multilayer strip according to any of the preceding claims, wherein the mineral filler is selected from the group consisting of calcium carbonate, calcium sulphate, barium sulphate, aluminium silicate (hydrated such as kaolinite for example), alumina, aluminium hydroxide (ATH), magnesium, zinc oxide, mica, chalk, talc, titanium dioxide, silica, clay (such as bentonite or montmorillonite), kieselguhr (diatoms) or dolomite and mixtures thereof.

109. The multilayer strip according to any of the preceding claims, wherein the mineral filler is selected from the group consisting of calcium carbonate, diatoms (kieselguhr) and/or silica and mixtures thereof.

1110. The multilayer strip according to any of the preceding claims, wherein the polymeric layer has a porosity (5) comprised between 40 and 75 % by volume, preferably between 50 and 60 % by volume.

1211. The multilayer strip according to claim 1110, wherein the porosity of the polymeric layer (2) is of closed type.

1312. The multilayer strip according to any of the preceding claims, wherein the polymeric layer (2) further comprises a coupling agent allowing the coupling of the mineral filler with the polyolefin.

1413. The multilayer strip according to claim 1112, wherein the coupling agent is a silane, preferably a beta-(3,4-epoxycyclohexyl)ethyl trimethoxy-silane.

~~15~~14. The use of the multilayer strip according to any of claims 1 to ~~14~~ 13 to tape an electric conductor.