Claims

1. A biaxially oriented film comprising a layer consisting of a propylene polymer composition (A) comprising (i) from 98.2 to 99.8 % by weight of a high isotactic homopolymer of propylene having a content of isotactic pentad fraction of from 93 to 98 % and a melt flow rate MFR_2 of from 0.5 to 10 g/10 min; and (ii) from 0.0000001 to 0.01 % by weight of a polymeric α-nucleating agent; (iii) from 0.1 to 1.0 % by weight of a propylene homo- or copolymer other than (i); and (iv) from 0.1 to 0.8 % by weight of conventional additives, the percentages being based on the weight of the propylene polymer composition (A), the propylene homo- or copolymer (iii) comprising from 0.5 to 100 ppm by weight of the propylene homo- or copolymer (iii) of the polymeric α-nucleating agent (ii),

   wherein in the propylene polymer composition (a) the homopolymer of propylene (i) and the propylene homo- or copolymer(iii) do not contain long chain branches and no further polymer containing long chain branches is added to the propylene polymer composition (A).

2. The biaxially oriented film according to claim 1 wherein the polymeric α-nucleating agent is selected from the group consisting of polyvinylcyclohexane, poly(3-methyl-1-butene) and mixtures thereof.

3. The biaxially oriented film according to any one of the preceding claims wherein the propylene polymer composition (A) has an ash content of not more than 30 ppm by weight.

4. The biaxially oriented film according to any one of the preceding claims wherein the film comprises a layer consisting of the propylene polymer composition (A).

5. The biaxially oriented film according to any one of the preceding claims wherein the conventional additives are selected from the antioxidants, stabilisers and acid scavengers.

6. The biaxially oriented film according to any one of the preceding claims wherein the film also comprises a metal layer.

7. The biaxially oriented film according to any one of the preceding claims wherein the thickness of the film is from 1 to 10 μm.

8. The use of the films according to any one of the claims 1 to 7 for making capacitors.

9. A capacitor comprising a film according to any one of claims 1 to 7.