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(54) Title: BLOCK COPOLYMER FORMULATION FOR THE IMPROVEMENT OF SELF-ASSEMBLED MORPHOLOGY IN
DIRECTED SELF-ASSEMBLY APPLICATION

(57) Abstract: A composition comprising components a), b) and c), wherein a) is a block copolymer component or blend of at least two block copolymers, b) is at least one low T_g oligomeric polystyrenic additive, and c) is an organic spin casting organic solvent. Component b), individually if more than one, has a T_g which ranges from about 68.0°C to about 90.0°C, a M_w which ranges from about 2,500 g/mole to about 8,000 g/mole, a polydispersity from about 1.20 to about 1.80, and further is selected from the group consisting a styrenic homopolymer prepared by radical polymerization, a styrenic random copolymer prepared by radical polymerization, whose repeat units only consist of styrenic repeat and where at least two styrenic repeat units are present, and a mixture of said styrenic homopolymer and at least one styrenic random copolymer. Also described are DSA processing methods using this composition.

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