

Nanoporous Block Copolymer Micelle/Micelle Multilayer Films with Dual Optical Properties

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We have demonstrated the formation of highly nanoporous films composed of two different BCMS through layer-by-layer (LbL) assembly on substrates. The films thus prepared showed tunable optical properties, with strong antireflective properties with light transmission above 99%. Considering the wide application areas of both LbL multilayers and block copolymer thin films, the approaches introduced in present study are likely to open up new possibilities for devices with multifunctional properties.