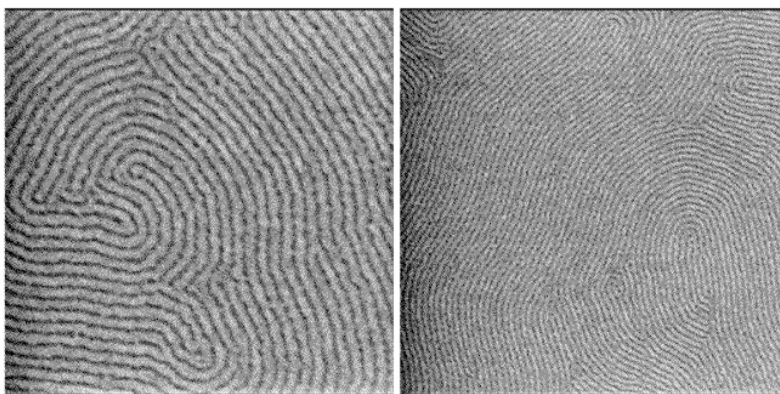




Random copolymer:

(Ia) 50 mole % ; (IIa) 30 mole %; (IIIa) 20 mole %

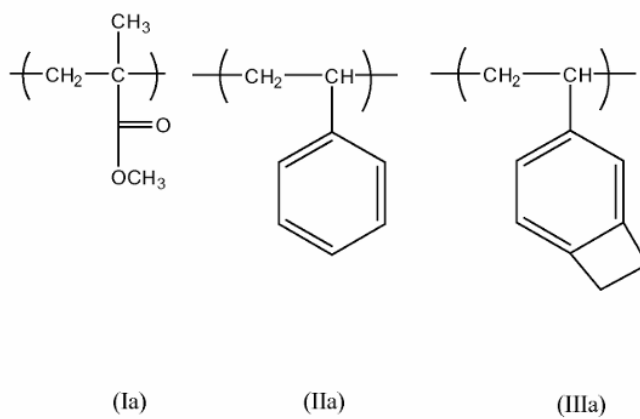
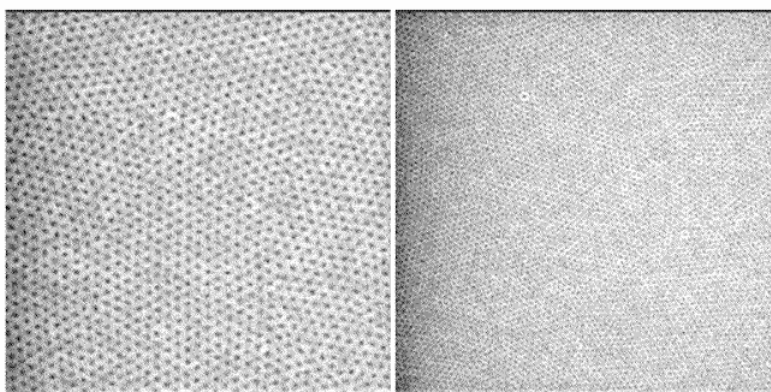


FIG. 1



Random copolymer:

(Ia) 48 mole % ; (IIa) 30 mole %; (IIIa) 20 mole %; (IVb) 2 mole %

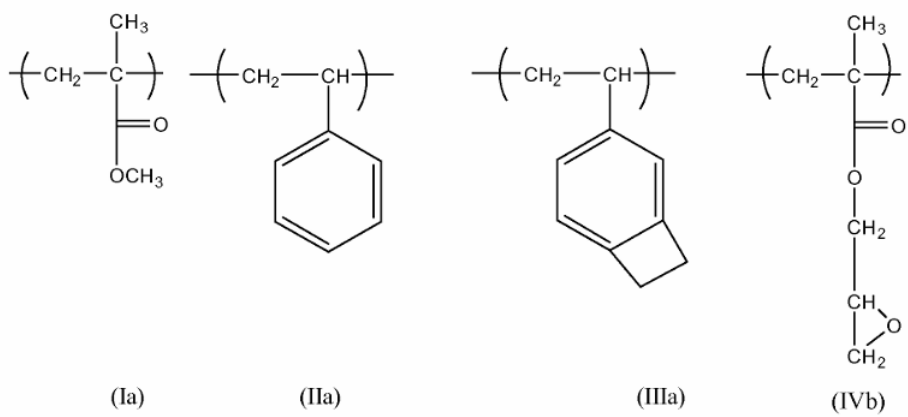
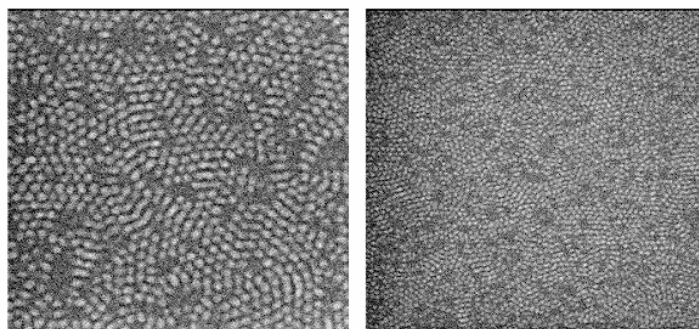


FIG. 2



Random copolymer: (Ia) 68 mole %; (IIa) 10 mole %; (IIIa) 20 mole %; (IVb) 2 mole %

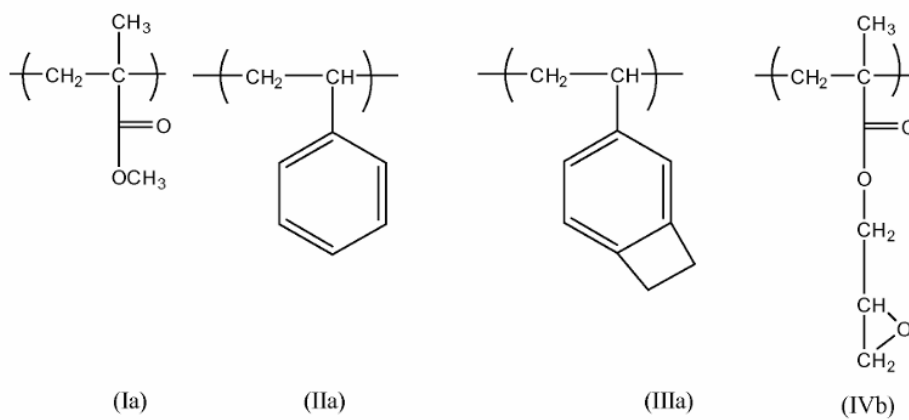
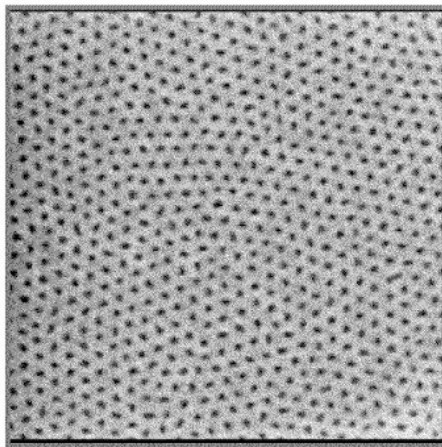


FIG. 3



Blend of random copolymer Example 2 and Rexample 4 in 60:40 wt ratio to form contact hole

FIG. 4

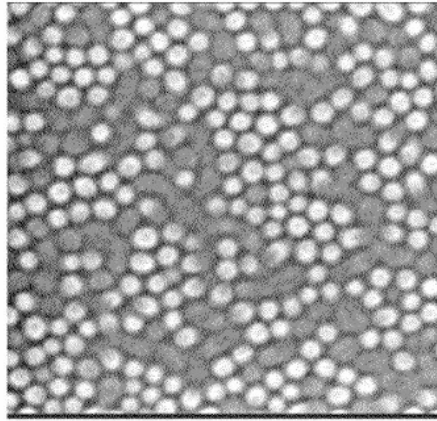


FIG. 5

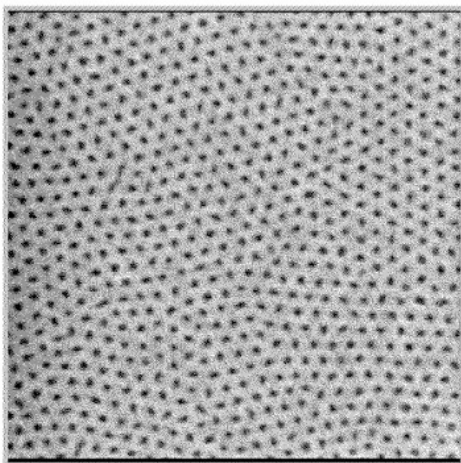


FIG. 6

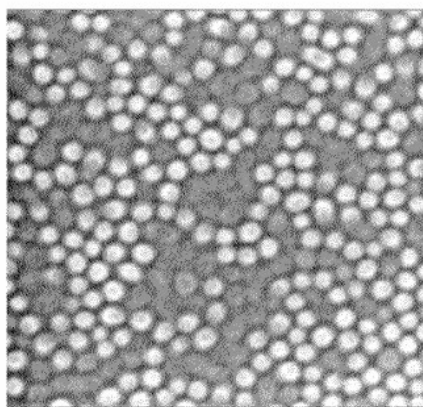


FIG. 7