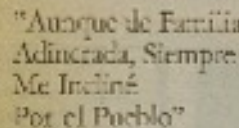




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Figure 1. The effect of the concentration of the polymer solution on the surface free energy of the polymer film. The surface free energy of the polymer film increases with the concentration of the polymer solution. The surface free energy of the polymer film is 1.5 mJ/m² at 0.1 g/dl, 2.5 mJ/m² at 0.5 g/dl, 4.5 mJ/m² at 1.0 g/dl, 6.5 mJ/m² at 1.5 g/dl, 8.5 mJ/m² at 2.0 g/dl, 10.5 mJ/m² at 2.5 g/dl, 12.5 mJ/m² at 3.0 g/dl, 14.5 mJ/m² at 3.5 g/dl, 16.5 mJ/m² at 4.0 g/dl, 18.5 mJ/m² at 4.5 g/dl, 20.5 mJ/m² at 5.0 g/dl, 22.5 mJ/m² at 5.5 g/dl, 24.5 mJ/m² at 6.0 g/dl, 26.5 mJ/m² at 6.5 g/dl, 28.5 mJ/m² at 7.0 g/dl, 30.5 mJ/m² at 7.5 g/dl, 32.5 mJ/m² at 8.0 g/dl, 34.5 mJ/m² at 8.5 g/dl, 36.5 mJ/m² at 9.0 g/dl, 38.5 mJ/m² at 9.5 g/dl, 40.5 mJ/m² at 10.0 g/dl, 42.5 mJ/m² at 10.5 g/dl, 44.5 mJ/m² at 11.0 g/dl, 46.5 mJ/m² at 11.5 g/dl, 48.5 mJ/m² at 12.0 g/dl, 50.5 mJ/m² at 12.5 g/dl, 52.5 mJ/m² at 13.0 g/dl, 54.5 mJ/m² at 13.5 g/dl, 56.5 mJ/m² at 14.0 g/dl, 58.5 mJ/m² at 14.5 g/dl, 60.5 mJ/m² at 15.0 g/dl, 62.5 mJ/m² at 15.5 g/dl, 64.5 mJ/m² at 16.0 g/dl, 66.5 mJ/m² at 16.5 g/dl, 68.5 mJ/m² at 17.0 g/dl, 70.5 mJ/m² at 17.5 g/dl, 72.5 mJ/m² at 18.0 g/dl, 74.5 mJ/m² at 18.5 g/dl, 76.5 mJ/m² at 19.0 g/dl, 78.5 mJ/m² at 19.5 g/dl, 80.5 mJ/m² at 20.0 g/dl, 82.5 mJ/m² at 20.5 g/dl, 84.5 mJ/m² at 21.0 g/dl, 86.5 mJ/m² at 21.5 g/dl, 88.5 mJ/m² at 22.0 g/dl, 90.5 mJ/m² at 22.5 g/dl, 92.5 mJ/m² at 23.0 g/dl, 94.5 mJ/m² at 23.5 g/dl, 96.5 mJ/m² at 24.0 g/dl, 98.5 mJ/m² at 24.5 g/dl, 100.5 mJ/m² at 25.0 g/dl, 102.5 mJ/m² at 25.5 g/dl, 104.5 mJ/m² at 26.0 g/dl, 106.5 mJ/m² at 26.5 g/dl, 108.5 mJ/m² at 27.0 g/dl, 110.5 mJ/m² at 27.5 g/dl, 112.5 mJ/m² at 28.0 g/dl, 114.5 mJ/m² at 28.5 g/dl, 116.5 mJ/m² at 29.0 g/dl, 118.5 mJ/m² at 29.5 g/dl, 120.5 mJ/m² at 30.0 g/dl, 122.5 mJ/m² at 30.5 g/dl, 124.5 mJ/m² at 31.0 g/dl, 126.5 mJ/m² at 31.5 g/dl, 128.5 mJ/m² at 32.0 g/dl, 130.5 mJ/m² at 32.5 g/dl, 132.5 mJ/m² at 33.0 g/dl, 134.5 mJ/m² at 33.5 g/dl, 136.5 mJ/m² at 34.0 g/dl, 138.5 mJ/m² at 34.5 g/dl, 140.5 mJ/m² at 35.0 g/dl, 142.5 mJ/m² at 35.5 g/dl, 144.5 mJ/m² at 36.0 g/dl, 146.5 mJ/m² at 36.5 g/dl, 148.5 mJ/m² at 37.0 g/dl, 150.5 mJ/m² at 37.5 g/dl, 152.5 mJ/m² at 38.0 g/dl, 154.5 mJ/m² at 38.5 g/dl, 156.5 mJ/m² at 39.0 g/dl, 158.5 mJ/m² at 39.5 g/dl, 160.5 mJ/m² at 40.0 g/dl, 162.5 mJ/m² at 40.5 g/dl, 164.5 mJ/m² at 41.0 g/dl, 166.5 mJ/m² at 41.5 g/dl, 168.5 mJ/m² at 42.0 g/dl, 170.5 mJ/m² at 42.5 g/dl, 172.5 mJ/m² at 43.0 g/dl, 174.5 mJ/m² at 43.5 g/dl, 176.5 mJ/m² at 44.0 g/dl, 178.5 mJ/m² at 44.5 g/dl, 180.5 mJ/m² at 45.0 g/dl, 182.5 mJ/m² at 45.5 g/dl, 184.5 mJ/m² at 46.0 g/dl, 186.5 mJ/m² at 46.5 g/dl, 188.5 mJ/m² at 47.0 g/dl, 190.5 mJ/m² at 47.5 g/dl, 192.5 mJ/m² at 48.0 g/dl, 194.5 mJ/m² at 48.5 g/dl, 196.5 mJ/m² at 49.0 g/dl, 198.5 mJ/m² at 49.5 g/dl, 200.5 mJ/m² at 50.0 g/dl, 202.5 mJ/m² at 50.5 g/dl, 204.5 mJ/m² at 51.0 g/dl, 206.5 mJ/m² at 51.5 g/dl, 208.5 mJ/m² at 52.0 g/dl, 210.5 mJ/m² at 52.5 g/dl, 212.5 mJ/m² at 53.0 g/dl, 214.5 mJ/m² at 53.5 g/dl, 216.5 mJ/m² at 54.0 g/dl, 218.5 mJ/m² at 54.5 g/dl, 220.5 mJ/m² at 55.0 g/dl, 222.5 mJ/m² at 55.5 g/dl, 224.5 mJ/m² at 56.0 g/dl, 226.5 mJ/m² at 56.5 g/dl, 228.5 mJ/m² at 57.0 g/dl, 230.5 mJ/m² at 57.5 g/dl, 232.5 mJ/m² at 58.0 g/dl, 234.5 mJ/m² at 58.5 g/dl, 236.5 mJ/m² at 59.0 g/dl, 238.5 mJ/m² at 59.5 g/dl, 240.5 mJ/m² at 60.0 g/dl, 242.5 mJ/m² at 60.5 g/dl, 244.5 mJ/m² at 61.0 g/dl, 246.5 mJ/m² at 61.5 g/dl, 248.5 mJ/m² at 62.0 g/dl, 250.5 mJ/m² at 62.5 g/dl, 252.5 mJ/m² at 63.0 g/dl, 254.5 mJ/m² at 63.5 g/dl, 256.5 mJ/m² at 64.0 g/dl, 258.5 mJ/m² at 64.5 g/dl, 260.5 mJ/m² at 65.0 g/dl, 262.5 mJ/m² at 65.5 g/dl, 264.5 mJ/m² at 66.0 g/dl, 266.5 mJ/m² at 66.5 g/dl, 268.5 mJ/m² at 67.0 g/dl, 270.5 mJ/m² at 67.5 g/dl, 272.5 mJ/m² at 68.0 g/dl, 274.5 mJ/m² at 68.5 g/dl, 276.5 mJ/m² at 69.0 g/dl, 278.5 mJ/m² at 69.5 g/dl, 280.5 mJ/m² at 70.0 g/dl, 282.5 mJ/m² at 70.5 g/dl, 284.5 mJ/m² at 71.0 g/dl, 286.5 mJ/m² at 71.5 g/dl, 288.5 mJ/m² at 72.0 g/dl, 290.5 mJ/m² at 72.5 g/dl, 292.5 mJ/m² at 73.0 g/dl, 294.5 mJ/m² at 73.5 g/dl, 296.5 mJ/m² at 74.0 g/dl, 298.5 mJ/m² at 74.5 g/dl, 300.5 mJ/m² at 75.0 g/dl, 302.5 mJ/m² at 75.5 g/dl, 304.5 mJ/m² at 76.0 g/dl, 306.5 mJ/m² at 76.5 g/dl, 308.5 mJ/m² at 77.0 g/dl, 310.5 mJ/m² at 77.5 g/dl, 312.5 mJ/m² at 78.0 g/dl, 314.5 mJ/m² at 78.5 g/dl, 316.5 mJ/m



1. *Principio de la vida.* La vida comienza con la fecundación del óvulo por el espermatozoide, formando el cigoto. Este se divide y se desarrolla en el embrión, que se implanta en el útero de la madre.

2. *Desarrollo del embrión.* El embrión se divide en tres capas: ectodermo, mesodermo y endodermo. Estas capas se diferencian en los tejidos y órganos del cuerpo.

3. *Formación de los órganos.* Los órganos se forman a partir de las capas embrionarias. El sistema nervioso se desarrolla a partir del ectodermo, el sistema circulatorio a partir del mesodermo y el sistema digestivo a partir del endodermo.

4. *Maduración del feto.* El feto se desarrolla en el útero, recibiendo nutrientes a través del cordón umbilical. El parto ocurre cuando el feto está listo para salir al mundo.

5. *Post-natal.* Después del parto, el niño se alimenta y crece. El sistema nervioso continúa desarrollándose, permitiendo al niño aprender y interactuar con su entorno.



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