## Surface Energy Data for Nylon 12, CAS # 24937-16-4

| Source[a] | Mst. Type[b] | Data[c] | Comments[d] |
|---|---|---|---|
| Pfluger, 1989[224] | Critical ST | $\gamma_c$ = 31 mJ/m$^2$; 23$^o$C | Test liquids not known. |
| Omenyi, 1981[178] | Contact angle | $\theta_W^A$ = 66.5$^o$; 22$^o$C | |
| Gotoh, 2000[172] | Contact angle | $\theta_W^A$ = 73.7$^o$; no temp cited | Single fiber measured by Wilhelmy plate technique. |
| Extrand, 2002[143] | Contact angle | $\theta_W^A$ = 77.0$^o$; $\theta_W^R$ = 56.5$^o$, $d\theta_W$ = 20.5$^o$; 23$^o$C | Measured by sessile drop method; cleaned with hexane and dried under vacuum. |
| Omenyi, 1981[178] | Contact angle | $\gamma_c$ = 43.2 mJ/m$^2$; 23$^o$C | Test liquids not known; calculated by equation of state method. |
| Gotoh, 2000[172] | Contact angle | $\gamma_s$ = 41.3 mJ/m$^2$ ($\gamma_s^{LW}$ = 37.0, $\gamma_s^{AB}$ = 4.3, $\gamma_s^+$ = 0.6, $\gamma_s^-$ = 7.6); no temp cited | Test liquids: water, diiodomethane, and ethylene glycol. Acid-base Wilhelmy plate analysis, advancing contact angles. |
| Wu, 2003[53] | Contact angle | $\gamma_s$ = 35.8 mJ/m$^2$ ($\gamma_s^d$ = 30.3, $\gamma_s^p$ = 5.5); 20$^o$C | Test liquids not known. |
| Surface-tension.de, 2007[110] | Unknown | $\gamma_s$ = 40.7 mJ/m$^2$ ($\gamma_s^d$ = 35.9, $\gamma_s^p$ = 4.9); 20$^o$C | No details available. |