Surface Energy Data for FEP: Fluorinated ethylene propylene, CAS # 25067-11-2

Source[a]	Mst. Type[b]	Data[c]	Comments[d]
Sperati, 1989[222]	Critical ST	γ_c = 17.8-18.6 mJ/m^2; no temp cited	Test liquids not known.
Markgraf, 2005[62]	Critical ST	γ_c = 18-22 mJ/m^2; no temp cited	Test liquids not known.
Petke, 1969[234]	Contact angle	θ_W^A = 108°; no temp cited	
Dwight, 1974[52]	Contact angle	θ_W^A = 109°, θ_W^R = 93°, $d\theta_W$ = 16°; no temp cited	
Westerdahl, 1974[63]	Contact angle	θ_W^Y = 103°, no temp cited	Commercial grade film, thickness 5 mils.
Triolo, 1983[189]	Contact angle	θ_W^R = 96°; no temp cited	Data estimated from graph. Fully hydrated sample immersed in water; interface with advancing, submerged octane bubble.
Egitto, 1990[65]	Contact angle	θ_W^Y = 110°, no temp cited	
Li, 1992[176]	Contact angle	θ_W^Y = 111.6°; 20°C	
Pettit, 1992[305]	Contact angle	θ_W^Y = 103°; no temp cited	
Bee, 1993[214]	Contact angle	θ_W^A = 115°, θ_W^R = 100°, $d\theta_W$ = 15°; no temp cited	
Good, 1998[151]	Contact angle	θ_W^A = 118.6°, θ_W^R = 105.2°, $d\theta_W$ = 13.4°; no temp cited	Surface rinsed with unspecified light hydrocarbon.
Angu, 2000[220]	Contact angle	θ_W^Y = 101.5°; no temp cited	Underwater captive bubble method, measured on concave tubular surface; technique A.
Angu, 2000[220]	Contact angle	θ_W^Y = 107.3°; no temp cited	Underwater captive bubble method, measured on concave tubular surface; technique B.
Ebnesajjad, 2006[280]	Contact angle	θ_W^Y = 101°, no temp cited	FEP-coated wire.
Chaudhury, 1984[21]	Contact angle	γ_s = 17.9 mJ/m^2 (γ_s^{LW} = 17.9, γ_s^{AB} = 0.0, γ_s^+ = 0.0, γ_s^- = 0.0); 20°C	Test liquids: water, alpha-bromonaphthalene, diiodomethane, formamide, and glycerin; acid-base analysis.
Li, 1992[176]	Contact angle	γ_c = 15.9 mJ/m^2; 20°C	Test liquids not known; from advancing contact angles by equation of state method.
Kwok, 2000[166]	Contact angle	γ_c = 18.0 mJ/m^2; no temp cited	Re-calculated by equation of state method from data produced by Kwok, 1995[167].
Kwok, 2000[166]	Contact angle	γ_c = 17.8 mJ/m^2; no temp cited	Re-calculated by alternate equation of state method from data produced by Kwok, 1995[167].
Ebnesajjad, 2006[280]	Contact angle	γ_s = 16.9 mJ/m^2 (γ_s^d = 14.3, γ_s^p = 2.6); no temp cited	Test liquids: water, diiodomethane, and xylene; FEP-coated wire, by geometric mean equation.
Ebnesajjad, 2006[280]	Contact angle	γ_s = 22.7 mJ/m^2 (γ_s^d = 17.3, γ_s^p = 5.4); no temp cited	Test liquids: water, diiodomethane, and xylene; FEP-coated wire, by harmonic mean equation.
Andrews, 1973[51]	Unknown	γ_s = 20.0 mJ/m^2 (γ_s^d = 19.6, γ_s^p = 0.4); no temp cited	Test details unknown; probably by contact angle.
Wu, 1982[49]	Unknown	γ_s = 18.8 mJ/m^2; 20°C	Measurement method not cited; PE molded under nitrogen.