Surface Energy Data for PVDC: Poly(vinylidene chloride) (Saran), CAS # 9002-85-1

Source[a]	Mst. Type[b]	Data[c]	Comments[d]
Ellison, 1954[8]	Critical ST	γ_c = 40 mJ/m^2; 20°C	Various test liquids.
Lee, 1968[131]	Critical ST	γ_c = 40 mJ/m^2; no temp cited	Test liquids: water, glycerol, formamide, alcohols, and long-chain polyglycols.
Wu, 1971[29]	Contact angle	θ_W^Y = 80°; 20°C	
Wu, 1971[29]	Contact angle	γ_s = 45.0 mJ/m^2 (γ_s^d = 41.9, γ_s^p = 3.1); 20°C	Test liquids: water and diiodomethane, by geometric mean equation.
Wu, 1971[29]	Contact angle	γ_s = 45.4 mJ/m^2 (γ_s^d = 36.3, γ_s^p = 9.1); 20°C	Test liquids: water and diiodomethane, by harmonic mean equation.
Kitazaki, 1972[191]	Contact angle	γ_s = 45.8 mJ/m^2 (γ_s^d = 43.0, γ_s^p = 2.8); no temp cited	Various test liquids; original results split polar component into hydrogen- and non-hydrogen bonding parameters.
Wu, 1979[45]	Contact angle	γ_c = 45.2 mJ/m^2; 20°C	Test liquids not known; calculated by the equation of state method.
Morra, 1999[134]	Contact angle	γ_s = 40.3 mJ/m^2 (γ_s^{LW} = 40.4, γ_s^{AB} = -0.1, γ_s^+ = 0.002, γ_s^- = 2.6); no temp cited	Test liquids not known; acid-base analysis based on reference values for water of γ^+ = 48.5 mJ/m^2 and γ^- = 11.2 mJ/m^2.
Kwok, 2000[166]	Contact angle	γ_c = 35.7 mJ/m^2; no temp cited	Re-calculated by equation of state method from data produced by Ellison, 1954[8].
Wu, 1971[29]	From polymer melt	γ_s = 45.2 mJ/m^2; 20°C	Direct measurement of polymer melt extrapolated to 20°C.
Wu, 1968[182]	Calculated	γ_s = 40 mJ/m^2; 20°C	Calculated from molecular constitution.
Sewell, 1971[193]	Calculated	γ_s = 39.6 mJ/m^2; no temp cited	Calculated from parachor and cohesive energy.
Sewell, 1971[193]	Calculated	γ_s = 46.6 mJ/m^2; no temp cited	Calculated by least squares from cohesive energy and molar volume.
Surface-tension.de, 2007[110]	Unknown	γ_s = 45.0 mJ/m^2 (γ_s^d = 40.5, γ_s^p = 4.5); 20°C	No details available.