Surface Energy Data for Epoxies and epoxy resins

Source[a]	Mst. Type[b]	Data[c]	Comments[d]
Wu, 1971[41]	Critical ST	γ_c = 44 mJ/m^2; 20^{o}C	Test liquids not known. Amine-cured epoxy resin.
George, 1993[215]	Critical ST	γ_c = 43-47 mJ/m^2; no temp cited	Test liquids not known. DGEBA-amine.
Occhiello, 1991[202]	Contact angle	θ_W^Y = 54^o; no temp cited	Epoxy E11 adhesive, cured 1 h at 353K (80^{o}C).
Occhiello, 1991[202]	Contact angle	θ_W^A = 90^o, θ_W^R = 18^o, $d\theta_W$ = 72^o; no temp cited	Epoxy E11 adhesive, cured 1 h at 353K (80^{o}C).
Uner, 2000[264]	Contact angle	θ_W^A = 85^o; no temp cited	
Wu, 1989[273]	Contact angle	γ_s = 46.8 mJ/m^2; 20^{o}C	Test liquids not known. Diglycidyl ether of bisphenol-A with 6% by weight of N-N-diethylaminopropylamine, cured.
Wu, 1989[273]	Contact angle	γ_s = 39.1 mJ/m^2 (γ_s^d = 32.6; γ_s^p = 6.5); 20^{o}C	Test liquids not known. Diglycidyl ether of bisphenol-A with stoichimetric amount of triethylenetetramine, cured.
Berger, 1991[145]	Contact angle	γ_s = 42.6 mJ/m^2 (γ_s^d = 42.6; γ_s^p = 0.0); no temp cited	Various test liquids, by geometric mean equation. Commercial two-part acid-cured epoxy adhesive.
Occhiello, 1991[202]	Contact angle	γ_s = 51.6 mJ/m^2 (γ_s^d = 32.6, γ_s^p = 19.0); no temp cited	Test liquids: water and diiodomethane; epoxy E11 adhesive, cured 1 h at 353K (80^{o}C).
Comyn, 2006[279]	Contact angle	γ_s = 45.5 mJ/m^2 (γ_s^d = 37.2; γ_s^p = 8.3); no temp cited	Test liquids not known. Rubber modified epoxide surface.
Comyn, 2006[279]	Contact angle	γ_s = 46.2 mJ/m^2 (γ_s^d = 41.2; γ_s^p = 5.0); no temp cited	Test liquids not known. Amine cured epoxide surface.