

Surface Energy Data for PC: Polycarbonate, CAS #24936-68-3

Source ^(a)	Mst. Type ^(b)	Data ^(c)	Comments ^(d)
Lee, 1968 ⁽¹³¹⁾	Critical ST	$\gamma_c = 42 \text{ mJ/m}^2$; no temp cited	Test liquids: water, glycerol, formamide, alcohols, and long-chain polyglycols.
Markgraf, 2005 ⁽⁶²⁾	Critical ST	$\gamma_c = 46 \text{ mJ/m}^2$; no temp cited	Test liquids not known.
Wu, 1982 ⁽²⁷⁾	Contact angle	$\theta_W^A = 84^\circ$, $\theta_W^R = 68^\circ$, $d\theta_W = 16^\circ$; 20°C	
Dewez, 1991 ⁽⁷⁸⁾	Contact angle	$\theta_W^Y = 78^\circ$; no temp cited	
Jonsson, 1992 ⁽¹¹²⁾	Contact angle	$\theta_W^Y = 88^\circ$; no temp cited	Cleaned by sonification in a 70/30 ethanol/water solution and rinsed with distilled water.
Cho, 2005 ⁽²²⁶⁾	Contact angle	$\theta_W^Y = 78^\circ$; no temp cited	Measured by sessile drop method.
Van Krevelen, 1976 ⁽⁸⁵⁾	Contact angle	$\gamma_s = 45 \text{ mJ/m}^2$; no temp cited	Test liquids not known.
Schoff, 2003 ⁽²⁶³⁾	Contact angle	$\gamma_s = 46 \text{ mJ/m}^2$ ($\gamma_s^d = 45$; $\gamma_s^p = 1$); no temp cited	Test liquids not known, by geometric mean equation. Lexan FL-900.
Schoff, 2003 ⁽²⁶³⁾	Contact angle	$\gamma_s = 50 \text{ mJ/m}^2$ ($\gamma_s^d = 42$; $\gamma_s^p = 8$); no temp cited	Test liquids not known, by geometric mean equation. Lexan LS2.
Wu, 2003 ⁽⁵³⁾	From polymer melt	$\gamma_s = 42.9 \text{ mJ/m}^2$; 20°C	Direct measurement of polymer melt extrapolated to 20°C.
Lee, 1968 ⁽¹³¹⁾	Calculated	$\gamma_s = 38 \text{ mJ/m}^2$; no temp cited	Calculated from glass temperature of 422K.
Wu, 1968 ⁽¹⁸²⁾	Calculated	$\gamma_s = 40 \text{ mJ/m}^2$; 20°C	Calculated from molecular constitution; bisphenol-A type PC.
Surface-tension.de, 2007 ⁽¹¹⁰⁾	Unknown	$\gamma_s = 34.2 \text{ mJ/m}^2$ ($\gamma_s^d = 27.7$, $\gamma_s^p = 6.5$); 20°C	No details available.