

Surface Energy Data — Assorted Polymers

Source ^(a)	Mst. Type ^(b)	Data ^(c)	Comments ^(d)
Cellophane, CAS # 9005-81-6:			
Wu, 1989 ⁽²⁷³⁾	Contact angle	$\gamma_s = 45.4 \text{ mJ/m}^2$ ($\gamma_s^d = 29.8$, $\gamma_s^p = 15.6$); 20°C	Test liquids not known.
CAB: Cellulose acetate butyrate, CAS # 9004-36-8:			
Wu, 1989 ⁽²⁷³⁾	Contact angle	$\gamma_s = 34 \text{ mJ/m}^2$; 20°C	Test liquids not known.
Cellulose triacetate, CAS # 9012-09-3:			
Wu, 1982 ⁽²⁹⁹⁾	Critical ST	$\gamma_c = 48.8 \text{ mJ/m}^2$; no temp cited	Test liquids not known.
Eicosane, CAS # 112-95-8:			
Wu, 1989 ⁽²⁷³⁾	From polymer melt	$\gamma_s = 28.9 \text{ mJ/m}^2$; 20°C	Direct measurement of polymer melt extrapolated to 20°C. $C_{20}H_{44}$; $M = 282$.
Ethyl cellulose, CAS # 9004-57-3:			
Wu, 1989 ⁽²⁷³⁾	Contact angle	$\gamma_s = 32 \text{ mJ/m}^2$; 20°C	Test liquids not known.
Luner, 2001 ⁽¹⁴⁴⁾	Contact angle	$\theta_w^A = 84.5^\circ$; 20°C	Measured by sessile drop method.
Luner, 2001 ⁽¹⁴⁴⁾	Contact angle	$\gamma_s = 28.6 \text{ mJ/m}^2$ ($\gamma_s^{LW} = 27.4$, $\gamma_s^{AB} = 1.2$, $\gamma_s^+ = 0.04$, $\gamma_s^- = 8.6$); 20°C	Test liquids: water, diiodomethane, formamide, and ethylene glycol. From advancing sessile drops.
EMA: Ethyl methacrylate, CAS # 97-63-2:			
Good, 1998 ⁽²⁷⁶⁾	Contact angle	$\theta_w^A = 74^\circ$; no temp cited	
Ko, 1981 ⁽¹⁰³⁾	Contact angle	$\gamma_s = 42.8 \text{ mJ/m}^2$ ($\gamma_s^d = 39.1$, $\gamma_s^p = 3.7$); no temp cited	Various test liquids, calculated from advancing contact angles, using a geometric mean equation.
Ko, 1981 ⁽¹⁰³⁾	Contact angle	$\gamma_s = 41.3 \text{ mJ/m}^2$ ($\gamma_s^d = 38.5$, $\gamma_s^p = 2.8$); no temp cited	Various test liquids; calculated from advancing contact angles, using a harmonic mean equation.
EPDM: Ethylene-propylene-diene-monomer, CAS # 25038-36-2:			
Bonnerup, 1993 ⁽⁷⁾	Contact angle	$\theta_w^Y = 91^\circ$; no temp cited	Washed with toluene and isopropanol, then dried overnight.
Bonnerup, 1993 ⁽⁷⁾	Contact angle	$\gamma_s = 35.5 \text{ mJ/m}^2$ ($\gamma_s^d = 29.7$; $\gamma_s^p = 5.8$); no temp cited	Washed with toluene and isopropanol, then dried overnight. Test liquids: water and diiodomethane.

Ver Strate, 1999⁽²⁸⁵⁾ Unknown $\gamma_s = 29.4 - 36.8 \text{ mJ/m}^2$; 20°C Value increases with ethene content.

HEMA: 2-Hydroxyethyl methacrylate (ethylene glycol monoacrylate), CAS #867-77-9:

Good, 1998⁽²⁷⁶⁾ Contact angle $\theta_W^A = 59^\circ$; no temp cited
Ko, 1981⁽¹⁰³⁾ Contact angle $\gamma_s = 55.9 \text{ mJ/m}^2$ ($\gamma_s^d = 35.9$, $\gamma_s^p = 20.0$); no temp cited Various test liquids; calculated from advancing contact angles, using a geometric mean equation.
Ko, 1981⁽¹⁰³⁾ Contact angle $\gamma_s = 57.6 \text{ mJ/m}^2$ ($\gamma_s^d = 36.6$, $\gamma_s^p = 21.0$); no temp cited Various test liquids; calculated from advancing contact angles, using a harmonic mean equation.

Nylon 2 (polyglycine), CAS # 25718-94-9:

Wu, 1989⁽²⁷³⁾ Contact angle $\gamma_s = 50.1 \text{ mJ/m}^2$ ($\gamma_s^d = 27.9$, $\gamma_s^p = 22.2$); 20°C Test liquids not known.

Nylon 4, CAS # 24938-56-5:

Wu, 2003⁽⁵³⁾ Contact angle $\gamma_s = 48.5 \text{ mJ/m}^2$ ($\gamma_s^d = 27.8$, $\gamma_s^p = 20.7$); 20°C Test liquids not known; from advancing contact angle.

Nylon 6,10, CAS # 9008-66-6:

Omenyi, 1981⁽¹⁷⁸⁾ Contact angle $\theta_W^A = 71.0^\circ$; 22°C
Omenyi, 1981⁽¹⁷⁸⁾ Contact angle $\gamma_s = 40.5 \text{ mJ/m}^2$; 22°C Test liquids not known.

Nylon 6,12, CAS # 24936-74-1:

Matsunaga, 1977⁽²⁰⁵⁾ Unknown $\gamma_s = 67 \text{ mJ/m}^2$ ($\gamma_s^d = 62$, $\gamma_s^p = 4.7$); no temp cited No details available.

Nylon 7,7:

Fort, 1964⁽¹⁷⁾ Critical ST $\gamma_c = 43 \text{ mJ/m}^2$; 22°C, 65% RH Test liquids: water, glycerol, and formamide. Polymer samples prepared by bulk melt polymerization and finish formed in contact with aluminum foil.

Fort, 1964⁽¹⁷⁾ Contact angle $\theta_W^A = 70^\circ$, 22°C; 65% RH Polymer samples prepared by bulk melt polymerization and finish formed in contact with aluminum foil.

Nylon 8,8:

Fort, 1964⁽¹⁷⁾ Critical ST $\gamma_c = 34 \text{ mJ/m}^2$; 22°C, 65% RH Test liquids: water, glycerol, and formamide. Polymer samples prepared by bulk melt polymerization and finish formed in contact with aluminum foil.

Fort, 1964 ⁽¹⁷⁾	Contact angle	$\theta_W^A = 86^\circ$; 22°C, 65% RH	Polymer samples prepared by bulk melt polymerization and finish formed in contact with aluminum foil.
Nylon 9,9:			
Fort, 1964 ⁽¹⁷⁾	Critical ST	$\gamma_c = 36$ mJ/m ² ; 22°C, 65% RH	Test liquids: water, glycerol, and formamide. Polymer samples prepared by bulk melt polymerization and finish formed in contact with aluminum foil.
Fort, 1964 ⁽¹⁷⁾	Contact angle	$\theta_W^A = 82^\circ$; 22°C, 65% RH	Polymer samples prepared by bulk melt polymerization and finish formed in contact with aluminum foil.
Nylon 10,10:			
Fort, 1964 ⁽¹⁷⁾	Critical ST	$\gamma_c = 32$ mJ/m ² ; 22°C, 65% RH	Test liquids: water, glycerol, and formamide. Polymer samples prepared by bulk melt polymerization and finish formed in contact with aluminum foil.
Fort, 1964 ⁽¹⁷⁾	Contact angle	$\theta_W^A = 94^\circ$; 22°C, 65% RH	Polymer samples prepared by bulk melt polymerization and finish formed in contact with aluminum foil.
Phenoxy resin, CAS # 26402-79-9:			
Wu, 1989 ⁽²⁷³⁾	Contact angle	$\gamma_s = 43.0$ mJ/m ² ; 20°C	Details not known.
Polyacetylene (polyethyne):			
Guiseppe-Elie, 1986 ⁽⁷⁷⁾	Contact angle	$\theta_W^Y = 72^\circ$; no temp cited	Stored and tested under argon to avoid oxidation; 20% <i>trans</i> , 80% <i>cis</i> -isomer polyacetylene.
Schonhorn, 1985 ⁽²⁸⁴⁾	Contact angle	$\gamma_s = 51$ mJ/m ² ($\gamma_s^d = 46.9$, $\gamma_s^p = 4.1$); 20°C	Test liquids not known; <i>cis</i> -isomer polyacetylene.
Schonhorn, 1985 ⁽²⁸⁴⁾	Contact angle	$\gamma_s = 52$ mJ/m ² ($\gamma_s^d = 49.4$, $\gamma_s^p = 2.6$); 20°C	Test liquids not known; <i>trans</i> -isomer polyacetylene.
Polyacrylamide, CAS # 9003-05-08			
Jarvis, 1964 ⁽¹⁵⁾	Critical ST	$\gamma_c = 31$ mJ/m ² ; 25°C	Various test liquids, not including water (testing performed under N ₂).
Crocker, 1969 ⁽¹¹¹⁾	Critical ST	$\gamma_c = 35$ -40 mJ/m ² ; no temp cited	Test liquids not known.
Kitazaki, 1972 ⁽¹⁹¹⁾	Contact angle	$\gamma_s = 52.3$ mJ/m ² ($\gamma_s^d = 26.5$, $\gamma_s^p = 25.8$); no temp cited	Various test liquids; original results split polar component into hydrogen- and non-hydrogen bonding parameters.
Poly(L-alanine), CAS # 25191-17-7:			
Wu, 1989 ⁽²⁷³⁾	Contact angle	$\gamma_s = 45.2$ mJ/m ² ($\gamma_s^d = 36.0$, $\gamma_s^p = 9.2$); 20°C	Test liquids not known.

Poly(benzyl methacrylate), CAS # 25085-83-0:

Fox, 1952 ⁽¹¹⁾	Critical ST	$\gamma_c = 36 \text{ mJ/m}^2$; 20°C	Test liquids not known.
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PiBMA: Poly(*iso*-butyl methacrylate), CAS # 9011-15-8:

Wu, 1971 ⁽²⁹⁾	From polymer melt	$\gamma_s = 30.9 \text{ mJ/m}^2$ ($\gamma_s^d = 25.9$, $\gamma_s^p = 5.0$); 20°C	Measurement by pendant drop of polymer melt extrapolated to 20°C; polarity calculated from interfacial tension with PE by geometric mean equation.
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Wu, 1971 ⁽²⁹⁾	From polymer melt	$\gamma_s = 30.9 \text{ mJ/m}^2$ ($\gamma_s^d = 26.6$, $\gamma_s^p = 4.3$); 20°C	Measurement by pendant drop of polymer melt extrapolated to 20°C; polarity calculated from interfacial tension with PE by harmonic mean. $M_v = 35,000$.
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Poly(butylene isophthalate):

Kasemura, 1979 ⁽²⁹⁵⁾	From polymer melt	$\gamma_s = 47.8 \text{ mJ/m}^2$ ($\gamma_s^d = 34.9$, $\gamma_s^p = 12.9$); 20°C	Direct measurement of polymer melt extrapolated to 20°C.
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PDES: Polydiethylsiloxane, CAS # 63148-61-8:

Fox, 1947 ⁽⁴⁴⁾	From polymer melt	$\gamma_s = 25.7 \text{ mJ/m}^2$ ($\gamma_s^d = 23.8$, $\gamma_s^p = 1.9$); 20°C	Measurement of polymer melt by ring method extrapolated to 20°C.
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Poly(dimethylaminoethyl methacrylate):

Wu, 1989 ⁽²⁷³⁾	Contact angle	$\gamma_s = 36 \text{ mJ/m}^2$; 20°C	Test liquids not known.
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PECH: Polyepichlorohydrin, CAS # 24969-06-0:

Crocker, 1969 ⁽¹¹¹⁾	Critical ST	$\gamma_c = 35 \text{ mJ/m}^2$; no temp cited	Test liquids not known.
Shafrin, 1975 ⁽²⁹⁷⁾	Critical ST	$\gamma_c = 35 \text{ mJ/m}^2$; 20°C	Test liquids not known.
Rastogi, 1969 ⁽⁴²⁾	From polymer melt	$\gamma_s = 43.2 \text{ mJ/m}^2$; 25°C	Measurement by pendant drop of polymer melt extrapolated to 20°C. $M = 1,500$.

PEI: Polyetherimide, CAS # 61128-46-9:

Kogoma, 1987 ⁽⁶⁶⁾	Contact angle	$\theta_w^Y = 85^\circ$; no temp cited
Asfardjani, 1991 ⁽⁷⁶⁾	Contact angle	$\theta_w^Y = 68^\circ$; no temp cited

PES: Polyethersulfone, CAS # 25154-01-2:

Kogoma, 1987 ⁽⁶⁶⁾	Contact angle	$\theta_W^Y = 69.0^\circ$; no temp cited	Measured by sessile drop method. Test liquids: water and formamide.
Cho, 2005 ⁽²²⁶⁾	Contact angle	$\theta_W^Y = 68^\circ$; no temp cited	
Cho, 2005 ⁽²²⁶⁾	Contact angle	$\gamma_s = 47 \text{ mJ/m}^2$ ($\gamma_s^d = 40$, $\gamma_s^p = 7$); no temp cited	

PEHA: Poly(2-ethylhexyl acrylate), CAS # 9003-77-4:

Wu, 1971 ⁽⁴¹⁾	Critical ST	$\gamma_c = 31 \text{ mJ/m}^2$ ($\gamma_s^d = 30.1$, $\gamma_s^p = 0.9$); 20°C	Test liquids not known.
Wu, 1971 ⁽⁴¹⁾	From polymer melt	$\gamma_s = 30.2 \text{ mJ/m}^2$ ($\gamma_s^d = 29.4$, $\gamma_s^p = 0.8$); 20°C	Direct measurement of polymer melt extrapolated to 20°C; polarity calculated from interfacial tension with PE by harmonic mean. $M_n = 34,000$.
Wu, 1989 ⁽²⁷³⁾	From polymer melt	$\gamma_s = 29.2 \text{ mJ/m}^2$ ($\gamma_s^d = 27.1$, $\gamma_s^p = 2.2$); 20°C	Direct measurement of polymer melt extrapolated to 20°C.

PEHMA: Poly(2-ethylhexyl methacrylate), CAS # 25719-51-1:

Wu, 1971 ⁽⁴¹⁾	From polymer melt	$\gamma_s = 28.8 \text{ mJ/m}^2$; 20°C	Direct measurement of polymer melt extrapolated to 20°C. $M_v = 64,000$.
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Poly(heptadecafluorooctyl methacrylate):

Wu, 1989 ⁽²⁷³⁾	Contact angle	$\gamma_s = 15.3 \text{ mJ/m}^2$ ($\gamma_s^d = 13.9$, $\gamma_s^p = 1.4$); 20°C	Test liquids not known.
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Poly(heptafluoroisopropyl acrylate):

Pittman, 1968 ⁽²⁹⁴⁾	Contact angle	$\gamma_s = 14 \text{ mJ/m}^2$; 20°C	Test liquids not known.
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Poly(heptafluoroisopropyl methacrylate):

Pittman, 1968 ⁽²⁹⁴⁾	Contact angle	$\gamma_s = 15 \text{ mJ/m}^2$; 20°C	Test liquids not known.
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Poly(hexachlorobutadiene):

Kaelble, 1974 ⁽²⁹²⁾	Contact angle	$\gamma_s = 41.5 \text{ mJ/m}^2$ ($\gamma_s^d = 40.7$, $\gamma_s^p = 0.8$); 20°C	Test liquids not known.
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PnHMA: Poly(hexyl methacrylate), CAS # 25087-17-6:

Kamagata, 1974 ⁽³⁰¹⁾	Critical ST	$\gamma_c = 27.5 \text{ mJ/m}^2$; 20°C	Test liquids not known.
Wu, 1971 ⁽⁴¹⁾	From polymer melt	$\gamma_s = 30.0 \text{ mJ/m}^2$ ($\gamma_s^d = 28.1$, $\gamma_s^p = 1.9$); 20°C	Direct measurement of polymer melt extrapolated to 20°C. $M_v = 52,000$.
Surface-tension.de, 2007 ⁽¹¹⁰⁾	Unknown	$\gamma_s = 30.0 \text{ mJ/m}^2$ ($\gamma_s^d = 27.0$, $\gamma_s^p = 3.0$); 20°C	No details available.

Poly(2-hydroxyethyl methacrylate), CAS # 24249-16-5:

Wu, 1971⁽⁴¹⁾ Critical ST $\gamma_c = 37 \text{ mJ/m}^2$; 20°C Test liquids not known.

Poly(isoprene), CAS # 9003-31-0:

Lee, 1967⁽²²¹⁾ Contact angle $\gamma_s = 32 \text{ mJ/m}^2$; no temp cited Test liquids not known; *cis*-isomer polyisoprene.
Lee, 1967⁽²²¹⁾ Contact angle $\gamma_s = 31 \text{ mJ/m}^2$; no temp cited Test liquids not known; *trans*-isomer polyisoprene.
Lee, 1967⁽²²¹⁾ Contact angle $\gamma_s = 34 \text{ mJ/m}^2$; no temp cited Test liquids not known; cyclized polyisoprene.

Poly(lauryl methacrylate) (poly(dodecyl methacrylate)), CAS # 25719-52-2:

Kamagata, 1974⁽³⁰¹⁾ Critical ST $\gamma_c = 21.3 \text{ mJ/m}^2$; 20°C Test liquids not known.
Wu, 1989⁽²⁷³⁾ Contact angle $\gamma_s = 32.8 \text{ mJ/m}^2$; 20°C Test liquids not known.

Poly(4-methyl pentene-1):

Heggs, 1992⁽²⁸⁷⁾ Contact angle $\gamma_s = 25 \text{ mJ/m}^2$; 20°C Test liquids not known.

PMS: Poly(α -methyl styrene), CAS # 25014-31-7:

Hata, 1968⁽³⁷⁾ From polymer melt $\gamma_s = 38.7 \text{ mJ/m}^2$; 20°C Measurement by sessile bubble of polymer melt extrapolated to 20°C. $M_n = 3000$.

Polymethylphenylsiloxane, CAS # 9005-12-3:

Fox, 1947⁽⁴⁴⁾ From polymer melt $\gamma_s = 26.1 \text{ mJ/m}^2$; 20°C Measurement by ring method extrapolated to 20°C.

Poly(methylphenylsilylene):

Fujisaka, 1993⁽²⁸⁸⁾ Unknown $\gamma_s = 43.3 \text{ mJ/m}^2$; no temp cited Details not known.
Fujisaka, 1993⁽²⁸⁸⁾ Unknown $\gamma_s = 44.1 \text{ mJ/m}^2$; no temp cited Details not known.

Poly(nonafluoroisobutyl acrylate):

Pittman, 1968⁽²⁹⁴⁾ Contact angle $\gamma_s = 14 \text{ mJ/m}^2$; 20°C Test liquids not known.

Poly(octyl methacrylate):

Kamagata, 1974⁽³⁰¹⁾ Critical ST $\gamma_c = 23.5 \text{ mJ/m}^2$; 20°C Test liquids not known.

Poly(phenyl methacrylate):

Toyama, 1974⁽³⁰²⁾ Critical ST $\gamma_c = 35 \text{ mJ/m}^2$; 20°C Test liquids not known.

PPO: Poly(phenylene oxide), CAS # 25134-01-4:

Markgraf, 2005⁽⁶²⁾ Critical ST $\gamma_c = 47 \text{ mJ/m}^2$; no temp cited Test liquids not known.
Schoff, 2003⁽²⁶³⁾ Contact angle $\gamma_s = 46 \text{ mJ/m}^2$ ($\gamma_s^d = 36$; $\gamma_s^p = 10$); no temp cited Test liquids not known; by geometric mean equation.
Noryl FN215.

Poly(phosphazene):

Allcock, 1995⁽²⁸⁹⁾ Critical ST $\gamma_c = 16.5 \text{ mJ/m}^2$; no temp cited Test liquids not known; by Zisman plot.
Allcock, 1995⁽²⁸⁹⁾ Contact angle $\gamma_s = 16 \text{ mJ/m}^2$; no temp cited Test liquids not known.
Reichert, 1982⁽²⁹⁰⁾ Contact angle $\gamma_s = 14.4 - 16.5 \text{ mJ/m}^2$; no temp cited Test liquids not known; measured after exposure to prolonged UV irradiation.

PnPMA: Poly(*n*-propyl methacrylate), CAS # 2210-79-9:

Wu, 1971⁽⁴¹⁾ Critical ST $\gamma_c = 32 \text{ mJ/m}^2$; 20°C Test liquids not known.
Wu, 1971⁽⁴¹⁾ From polymer melt $\gamma_s = 33.2 \text{ mJ/m}^2$; 20°C Direct measurement of polymer melt extrapolated to 20°C.
 $M_v = 8500$.

Poly(propylene isophthalate):

Kasemura, 1979⁽²⁹⁵⁾ From polymer melt $\gamma_s = 49.3 \text{ mJ/m}^2$ ($\gamma_s^d = 35.1$, $\gamma_s^p = 14.2$); 20°C Direct measurement of polymer melt extrapolated to 20°C.

Poly(stearyl methacrylate), CAS # 25639-21-8:

Kamagata, 1974⁽³⁰¹⁾ Critical ST $\gamma_c = 20.8 \text{ mJ/m}^2$; 20°C Test liquids not known.
Wu, 2003⁽⁵³⁾ Contact angle $\gamma_s = 36.3 \text{ mJ/m}^2$; 20°C Test liquids not known.

PTHF: Poly(tetrahydrofuran), CAS # 25190-06-1:

Wu, 1971⁽²⁹⁾ From polymer melt $\gamma_s = 31.9 \text{ mJ/m}^2$ ($\gamma_s^d = 27.4$, $\gamma_s^p = 4.5$); 20°C Measurement by pendant drop of polymer melt extrapolated to 20°C; polarity calculated from interfacial tension with PE by geometric mean equation.
Wu, 1971⁽²⁹⁾ From polymer melt $\gamma_s = 31.9 \text{ mJ/m}^2$ ($\gamma_s^d = 27.0$, $\gamma_s^p = 4.9$); 20°C Measurement by pendant drop of polymer melt extrapolated to 20°C; polarity calculated from interfacial tension with PE by harmonic mean.

Poly(tetramethylene oxide):

Wu, 1982 ⁽¹⁸⁾	Calculated	$\gamma_s = 33.7 \text{ mJ/m}^2; 20^\circ\text{C}$	Calculated from cohesive energy density and solubility parameters.
Surface-tension.de, 2007 ⁽¹¹⁰⁾	Unknown	$\gamma_s = 31.9 \text{ mJ/m}^2$ ($\gamma_s^d = 27.4$, $\gamma_s^p = 4.5$); 20°C	No details available.

Poly(vinyl butyral), CAS # 63148-65-2:

Kutsch, 1993 ⁽¹⁰²⁾	Critical ST	$\gamma_c = 28 \text{ mJ/m}^2$; no temp cited	Test liquids not known.
Wu, 1971 ⁽⁴¹⁾	Contact angle	$\gamma_s = 38 \text{ mJ/m}^2; 20^\circ\text{C}$	Test liquids not known.

Poly(vinyl butyrate):

Wu, 1989 ⁽²⁷³⁾	From polymer melt	$\gamma_s = 31.1 \text{ mJ/m}^2$ ($\gamma_s^d = 25.8$, $\gamma_s^p = 5.3$); 20°C	Direct measurement of polymer melt extrapolated to 20°C .
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Poly(vinyl decanoate):

Wu, 1989 ⁽²⁷³⁾	From polymer melt	$\gamma_s = 28.9 \text{ mJ/m}^2$ ($\gamma_s^d = 27.1$, $\gamma_s^p = 1.8$); 20°C	Direct measurement of polymer melt extrapolated to 20°C .
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Poly(vinyl dodecanoate):

Wu, 1989 ⁽²⁷³⁾	From polymer melt	$\gamma_s = 29.1 \text{ mJ/m}^2$ ($\gamma_s^d = 27.8$, $\gamma_s^p = 1.3$); 20°C	Direct measurement of polymer melt extrapolated to 20°C .
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Poly(vinyl ethyl ether) (polyethoxyethylene), CAS # 25104-37-4:

Kitazaki, 1972 ⁽²⁹³⁾	Contact angle	$\gamma_s = 36 \text{ mJ/m}^2; 20^\circ\text{C}$	Test liquids not known.
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Poly(vinyl formal), CAS # 63450-15-7:

Shafrin, 1975 ⁽²⁹⁷⁾	Critical ST	$\gamma_c = 39 \text{ mJ/m}^2; 20^\circ\text{C}$	Test liquids not known.
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Poly(vinyl hexadecanoate):

Wu, 1989 ⁽²⁷³⁾	From polymer melt	$\gamma_s = 30.9 \text{ mJ/m}^2$ ($\gamma_s^d = 29.8$, $\gamma_s^p = 1.1$); 20°C	Direct measurement of polymer melt extrapolated to 20°C .
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Poly(vinyl hexanoate):

Wu, 1989 ⁽²⁷³⁾	From polymer melt	$\gamma_s = 28.9 \text{ mJ/m}^2$ ($\gamma_s^d = 25.1$, $\gamma_s^p = 3.8$); 20°C	Direct measurement of polymer melt extrapolated to 20°C .
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Poly(vinyl octanoate):

Wu, 1989⁽²⁷³⁾ From polymer melt $\gamma_s = 28.7 \text{ mJ/m}^2$ ($\gamma_s^d = 26.5$, $\gamma_s^p = 2.2$); 20°C Direct measurement of polymer melt extrapolated to 20°C.

Poly(vinyl proprionate), CAS # 25035-84-1:

Wu, 1989⁽²⁷³⁾ From polymer melt $\gamma_s = 34.0 \text{ mJ/m}^2$ ($\gamma_s^d = 26.5$, $\gamma_s^p = 7.5$); 20°C Direct measurement of polymer melt extrapolated to 20°C.

PVP: Poly(vinyl pyrrolidone), CAS # 9003-39-8:

Lee, 1999⁽¹¹⁶⁾ Contact angle $\gamma_s = 48.5 \text{ mJ/m}^2$ ($\gamma_s^{LW} = 43.4$, $\gamma_s^{AB} = 5.1$, $\gamma_s^+ = 0.4$, $\gamma_s^- = 15.3$); 20°C Test liquids water, alpha-bromonaphthalene, diiodomethane, formamide, and glycerin; acid-base analysis, based on reference values for water of $\gamma^+ = 34.2 \text{ mJ/m}^2$ and $\gamma^- = 19 \text{ mJ/m}^2$.

van Oss, 2006⁽²⁶⁾ Contact angle $\gamma_s = 43.4 \text{ mJ/m}^2$ ($\gamma_s^{LW} = 43.4$, $\gamma_s^{AB} = 0.0$, $\gamma_s^+ = 0.0$, $\gamma_s^- = 29.7$); 20°C Test liquids water, alpha-bromonaphthalene, diiodomethane, formamide, and glycerin; acid-base analysis.

Poly(xylylene) (parylene):

Nowlin, 1980⁽²⁹¹⁾ Contact angle $\gamma_s = 46.3 \text{ mJ/m}^2$ ($\gamma_s^d = 45.7$; $\gamma_s^p = 0.6$); 20°C Test liquids not known.