TALAS
EST 1962

ROHM AND HAAS COMPANY COATINGS

PARALOID® Acrylic Resins

Thermoplastic
Solution Grade & Solid Grade
Acrylic Resins

SOLVENT SELECTION

Solid Grade

		PARALOID GRADES									
		A-11	**A-12**	**A-21**	**B-44**	**B-48N**	**B-60**	**B-66**	**B-67**	**B-72**	**B-82**
	Solubility Parameters	**9.4**	**9.4**	**9.4**	**9.4**	**9.3**	**9.2**	**9.0**	**8.2**	**9.3**	**9.4**
ALCOHOLS											
3A alcohol	13.0	SG[1H]	I	SG[1H]	SG	SG[2H]	SG[H]	SG	5200	SG[2H]	SG[1H]
Isopropanol	11.5	I	I	I	I	I	I	I	2800	I	I
n-Butanol	11.4	I	I		I	I	I	94[1]	2500	130[1]	I
Isobutanol	10.5	I	I		I			5600[2H]	3200	I	I
n-Amyl alcohol	10.9	I	I		I		I	I	3200	I	I
Diacetone alcohol	9.8	350[1]	350[1]	680[1]	10000	460[1]	7800	6200	2300	3500	3000
ESTERS											
Methyl acetate	9.5	740[2]	380[2]	120[1]	3900	5000	1600	700	320	1000	700[H]
-Ethyl acetate	9.1	69[1]	50[1]	1110[H]	1800	7700[H]	920	940	240	500	610
n-Propyl acetate	8.8	2500[2]	1080[2]	2240	1800	8300[H]		570	180	480[H]	480
n-Butyl acetate	8.5	4100[2]	115[1]	6550[H]	2600	9200[H]	1730[H]	780	250	560	630
t-butyl acetate*		PS	PS	I	6630[40]	6360[40]	275[30]	1230[40]	49.2[30]	1550[40]	1370[4]
Isobutyl acetate	8.3	5100[2]	3070[2]	8450[H]	3100	8400[H]		960	240	660[H]	700
Amyl acetate	8.5	710[1]	PS		5600		3000[H]	1100	320	850	980
2-Ethyl hexyl acetate	7.9	I	I	I	I	I	PS	6900	770	I	I
duPont DBE	8.1	960[1]	460[1]	1320[1]	340[1]	520[1]	100[1]	9200	4800	7900[H]	6400[H]
Exxate 600	8.3	SG[1H]	I	SG[H]	340[2H]	120[1H]	5400[H]	2600	540	2500	2200
Exxate 700	8.2	SG[1]	I	SG[H]	2600[2H]	280[1H]	740[2]	3500	800	3700	3900[H]
Exxate 800	8.1	SG[1H]	I	I	SG[2H]	540[1H]	120[1H]	5100	1300	4700	5000[H]
Exxate 900	8.1	I	I	I	SG[H]	SG[2H]	160[1H]	100[1H]	1700	8200	6000[H]
GLYCOL AND ETHER ESTER DERIVATIVES											
Arcosolv ¨ PM*		423[20]	324[20]	610[20]	6070[40]	8050[40]	3630[40]	2140[40]	865[40]	2400[40]	1920[4]
PM Acetate	9.2	230[1]	165[1]	620[1]	4900	100[1]	3950	2300	760	1300	1300

Butyl Cellosolve	9.9	I	I	I	24000	PS	PS	17000	2700[H]	3200	4500[I]
Carbitol acetate	9.5	18000[2]	9200[2]		18000			9800	3300	4800	3700
Butyl Carbitol acetate	9.0	2800[2]	I		25000		5500	10000	2700	5500	5100
Ektapro EEP	9.0	320[1]	220[1]	60[1]	7800	140[1]	340[2]	2500	880	2700	2600
HYDROCARBONS											
Tolulene	8.9	500[2]	6200	590	1400	5600	530	360	460[3]	590	530
Xylene	8.8	PS	15,000	PS	3600	580[2]	950	590	300	980	980
Heptane	7.4	I	I	I	I	I	I	I	550	I	I
VM&P naphtha	7.6	I	I	I	I	I	I	I	560	I	I
Mineral spirits	7.6	I	I	I	I	I	I	I	1800	I	I
Aromatic 100	8.6	I	I	I	I	120[1]	2250	2500	280	1100[H]	230[2]
Aromatic 150	8.5	I	I	I	I	920[2]	8800	320[2]	590	2700[H]	I
KETONES											
Acetone	10.0	1100	2750	380	460	3000	320	110	94	200	140
Methyl ethyl ketone	9.3	8500	3500	320	510	5300	310	200	110	250	200
n-methyl pyrrolidone*		4930[30]	2600[30]	4640[30]	ND	10900[40]	1750[40]	1830[40]	924[40]	3000[40]	2630[4]

Code:

H Hazy solution or soluble gel

I Insoluble

D Dispersed

PS Partially soluble

SG Swelled gel

[1]Determined at 20% solids.

[2]Determined at 30% solids.

[3]Determined at 50% solids.

[4]Determined at 25% solids.

*Superscript indicates % solids.

Values are Viscosity, cP, at 25°C of a 40% solids solution, except as noted