

Polysciences, Inc. produces a unique array of microelectronic grade encapsulants, adhesives, coatings and potting compounds.

These ultra pure materials offer a wide selection of performance criteria such as viscosity, UV or thermal cure, low or high modulus, screen printable, low CTE, green fire retardant, lead free etc., for applications ranging from PBGA, QFP and smart card encapsulations to wafer level coatings.

Acrylics

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
PC800	869	Gel	4h/RT	60	120	250	65D
PC7010	844	1.5	UV	45	150	2	75A
PC7020	861	0.2	UV	55	120	4	70A
PC7030	937	1	UV	70	80	80	70D

Conformal Coat

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
CC1001	677	0.1	1h/150	125	70	2500	85D
CC1002	684	0.4	1h/150	125	70	2500	85D
CC1003	685	0.6	1h/150	125	70	2500	85D
CC1004	686	2	1h/150	125	70	2500	85D
CC1010	930	20	1h/150	130	50	500	80D
CC1200	898	1.5	UV or UV +0.5h/120	70	100	25	65D

Damms

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
SD54G0	681	100	UV or 1h/150	-20	130	1.5	85A
SD1011	925	30	1h/100+1h/165	180	15	4000	85D
SD8002	927	200	1h/100+1h/165	150	15	3500	85D
SD1010	708	1000	1h/100+1h/165	165	40	2000	85D

Solving Electronic Assembly & Manufacturing Issues with Unique Chemicals & Polymers

Epoxies

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
CC1001	677	0.1	1h/150	125	70	2500	85D
CC1002	684	0.4	1h/150	125	70	2500	85D
CC1003	685	0.6	1h/150	125	70	2500	85D
CC1004	686	2	1h/150	125	70	2500	85D
CC1010	930	20	1h/150	130	50	500	80D
ES8001	663	250	1h/125+1h/160	180	15	3500	90D
EW8002	667	50	1h/100+1h/165	150	15	3500	85D
EW8002N	891	50	1h/100+1h/165	150	15	3500	85D
EW8003	680	100	1h/100+1h/165	170	12	4000	85D
EW8004	929	50	0.5h/150	160	15	3500	85D
PC200	931	4	8h/RT	65	140	12	75D
PC220	944	0.4	4h/RT	70	80	1000	80D
PC225	940	0.4	4h/60	20	100	100	70A
PC310	697	3	1h/60	65	100	25	70D
PC410	706	70	1h/80	70	50	250	85D
PC420	845	35	1h/80	65	60	200	85D
PC440	932	0.2	2h/80	-10	30	3	70D
PC500	843	150	0.5/150	125	100	400	80D
PC520	933	200	0.5h/150	135	50	1200	80D
PC550	846	40	4h/RT	70	120	100	70D
PC570	934	1	5min/150	130	60	400	85D
PC600	705	0.2	1h/100+1h/ 150+1h/200	200	60	1000	90D
PC610	899	20	1h/150	150	50	3200	85D
PC620	707	20	2h/150+2h/200	210	50	3550	90D
PC700	939	20	8h/RT	75	75	1200	85D
PC1100	941	15	1h/150+1h/160	155	30	2500	90D
PC1200	935	65	1h/100+1h/165	195	16	2500	90D
PC7050	942	0.5	UV 10"	120	75	200	75D
SD1010	708	1000	1h/100+1h/165	165	40	2000	85D
SD1011	925	30	1h/100+1h/165	180	15	4000	85D
SD8002	927	200	1h/100+1h/165	150	15	3500	85D
SF801	675	0.3	1h/80	50	125	20	50D
SF850	870	0.5	1.5h/150	150	60	500	80D
SF860	903	1.5	2h/120	150	80	400	80D
SF900	871	0.5	0.5h/100	60	120	20	65A
WL2000	945	0.1	1h/150	120	70	2500	85D
WL2010	946	0.1	1h/150	120	70	2500	85D

High Performance Adhesives and Coatings

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
HPA900	938	0.2	24h/RT	20	200	0.5	85D
HV102	690	30	0.5/60	<-70	300	0.1	15A
PC200	931	4	8h/RT	65	140	12	75D
PC310	697	3	1h/60	65	100	25	70D
PC410	706	70	1h/80	70	50	250	85D
PC440	932	0.2	2h/80	-10	30	3	70D
PC500	843	150	0.5/150	125	100	400	80D
PC520	933	200	0.5h/150	135	50	1200	80D
PC550	846	40	4h/RT	70	120	100	70D
PC600	705	0.2	1h/100+1h/150+1h/200	200	60	1000	90D
PC610	899	20	1h/150	150	50	3200	85D
PC620	707	20	2h/150+2h/200	210	50	3550	90D
PC700	939	20	8h/RT	75	75	1200	85D
PC800	869	Gel	4h/RT	60	120	250	65D
PC1100	941	15	1h/150+1h/160	155	30	2500	90D
PC1200	935	65	1h/100+1h/165	195	16	2500	90D
PC7010	844	30	UV	45	150	2	75A
PC7020	861	200	UV	55	120	4	70A
PC7030	937	1000	UV	70	80	80	70D
PC7050	942	0.5	UV 10"	120	75	200	20A

High Temperature

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
ES8010	936	250	1h/100+1h/165	180	15	3500	90D
EW7072	640	150	2h/130+2h/170	180	15	4000	80D
EW8002	667	50	1h/100+1h/165	150	15	3500	85D
EW8002N	891	50	1h/100+1h/165	150	15	3500	85D
EW8003	680	100	1h/100+1h/165	170	12	4000	85D
EW8004	929	50	0.5h/150	160	15	3500	85D
HV200	904	30	0.5/60	<-70	250	1	30A
HV300	696	10	1h/60	<-70	200	3	50A
HV330	892	30	1h/60	<-70	150	5	80A
HV400	701	10	1h/60	<-70	150	5	80A
PC570	934	1	5min/150	130	60	400	85D

High Temperature cont.

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
PC600	705	0.2	1h/100+1h/150+1h/200	200	60	1000	90D
PC610	899	20	1h/150	150	50	3200	85D
PC620	707	20	2h/150+2h/200	210	50	3550	90D
PC1100	941	15	1h/150+1h/160	155	30	2500	90D
PC1200	935	65	1h/100+1h/165	195	16	2500	90D
PC7050	942	0.5	UV 10"	120	75	200	75D
SD1010	708	1000	1h/100+1h/165	165	40	2000	85D
SD1011	925	30	1h/100+1h/165	180	15	4000	85D
SD8002	927	200	1h/100+1h/165	150	15	3500	85D
SF850	870	0.5	1.5h/150	150	60	500	80D
SF860	903	1.5	2h/120	150	80	400	80D

Liquid Encapsulants - LoSTRESS™

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
PC440	932	0.2	2h/80	-10	30	3	70D
PC7010	844	30	UV	45	150	2	75A
SF50	926	20	1h/160	-60	150	5	40A
SF5002	638	10	1h/150+1h/160	-20	150	5	80A
SF5021	881	5	UV 10 sec.	0	150	5	70A
SF54GB	651	25	1h/150+1h/160	-20	150	5	30D

Optical Encapsulants - OptiCLEAR™

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
HV100	688	0.3	0.5h/60	<-70	300	0.05	5A
HV331	928	0.2	0.3/65	<-70	200	0.1	20A
PC570	934	1	5min/150	130	60	400	85D
PC7050	942	0.5	UV 10"	120	75	200	75D
SF503	668	2	UV or 1h/130	100	70	50	60D
SF801	675	0.3	1h/80	50	125	20	50D
SF850	870	0.5	1.5h/150	150	60	500	80D
SF860	903	1.5	2h/120	130	80	400	80D
SF900	871	0.5	0.5h/100	60	120	20	65A
SF5002	638	10	1h/150+1h/160	-20	150	5	80A
SF5021	881	7	UV or 1h/130	0	100	5	30D

Potting Compounds

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
EW8002	667	50	1h/100+1h/165	150	15	3500	85D
EW8002N	891	50	1h/100+1h/165	150	15	3500	85D
EW8004	929	50	0.5h/150	160	15	3500	85D
HV100	688	0.3	0.5h/60	<-70	300	0.05	5A
HV200	904	30	0.5h/60	<-70	250	0.1	15A
HV300	696	10	1h/60	<-70	200	3	50A
HV330	892	30	1h/60	<-70	200	3	50A
HV331	928	0.2	2h/65	-80	300	0.1	20A
HV400	701	10	1h/60	<-70	150	5	80A
PC200	931	4	8h/RT	65	140	12	75D
PC220	944	0.4	4h/RT	70	80	1000	80D
PC225	940	0.4	4h/60	20	100	100	70A
PC310	697	3	1h/60	65	100	25	70D
PC410	706	70	1h/80	70	50	250	85D
PC420	845	35	1h/80	65	60	200	85D
PC440	932	0.2	2h/80	-10	30	3	70A
PC570	934	1	5min/150	130	60	400	85D
PC600	705	0.2	1h/100+1h/ 150+1h/200	200	60	1000	90D
PC610	899	20	1h/150	150	50	3200	85D
PC1100	941	15	1h/150+1h/160	155	30	2500	90D
PC1200	935	65	1h/150+1h/165	195	16	2500	90D
PC7010	844	1.5	UV	45	150	2	75A
PC7020	861	200	UV	55	120	4	70A
PC7030	937	1000	UV	70	80	80	70D
PC7050	942	0.5	UV 10"	120	75	200	75D
SF50	926	20	1h/160	-60	150	5	40A
SF54GB	651	25	1h/150+1h/160	-20	150	5	30D
SF503A	668	2	UV or 1h/130	0	100	5	30D
SF801	675	0.3	1h/80	50	125	20	50D
SF850	870	0.5	1.5h/150	150	60	500	80D
SF860	903	1.5	2h/120	130	80	400	80D
SF900	871	0.5	0.5h/100	60	120	20	65A
SF5002	638	10	1h/150+1h/160	-20	150	5	80A
SF5021	881	7	UV or 1h/130	0	100	5	30D

RT/Low Temperature Cure

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
HPA900	938	0.2	24h/RT	20	200	0.5	85A
HV100	688	0.3	0.5h/60	<-70	300	0.05	5A
HV102	690	30	0.5h/60	<-70	300	0.1	15A
HV200	904	30	0.5h/60	<-70	250	0.1	15A
HV300	696	10	1h/60	<-70	200	3	50A
HV330	892	30	1h/60	<-70	200	3	50A
HV331	928	0.2	2h/65	-80	300	0.1	20A
HV400	701	10	1h/60	<-70	150	5	80A
PC200	931	4	8h/RT	65	140	12	75D
PC220	944	0.4	4h/RT	70	80	1000	80D
PC225	940	0.4	8h/60	20	100	100	70A
PC310	697	3	1h/60	65	100	25	70D
PC410	706	70	1h/80	70	50	250	85D
PC420	845	35	1h/80	65	60	200	85D
PC440	932	0.2	2h/80	-10	30	3	70A
PC700	939	20	8h/RT	75	75	1200	85D
SF801	675	0.3	1h/80	50	125	20	50D
SF900	871	0.5	0.5/100	60	120	20	65A

Silicone Products

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
HV100	688	0.3	0.5/60	<-70	300	0.05	5A
HV102	690	30	0.5/60	<-70	300	0.1	15A
HV200	904	30	0.5/60	<-70	250	1	30A
HV300	696	10	1h/60	<-70	200	3	50A
HV330	892	30	1h/60	<-70	150	5	80A
HV331	928	0.2	0.3/65	<-70	200	0.1	20A
HV400	701	10	1h/60	<-70	150	5	80A

Stencil Applied Encapsulants

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
ES8010	936	250	1h/100+1h/165	180	15	3500	90D

Thermally Conductive

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
HV300	696	10	1h/60	<-70	200	3	50A
HV330	892	30	1h/60	<-70	150	5	80A
PC410	706	70	1h/80	70	50	250	85D
PC420	845	40	1h/100°C	65	50	500	88D
PC440	932	0.2	2h/80	-10	30	3	70A
PC1100	941	15	1h/150+1h/160	155	30	2500	90D
PC1200	935	65	1h/150+1h/165	195	15	2500	90D

UV Cure

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
CC1200	898	1.5	UV or UV+0.5/120	70	100	25	65D
EW2000	717	20	UV	150	20	500	75D
EW7072	640	150	2h/130+2h/170	180	15	4000	80D
PC7010	844	1.5	UV	45	150	2	75A
PC7020	861	0.2	UV	55	120	4	70A
PC7030	937	1	UV	70	80	80	70D
PC7050	942	0.5	UV 10"	120	75	200	75D
SF5002	638	10	1h/150+1h/160	-20	150	5	80A
SF5021	881	7	UV or 1h/130	0	100	5	30D
SF503	668	2	UV or 1h/130	100	70	50	60D

Wafer Level/CSP

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
WL2000	945	0.1	1h/150	120	70	2500	85D
WL2010	946	0.1	1h/150	120	70	2500	85D

Wire Bond & Globtop Encapsulants - NoSWEEP™

Cat. #	TDS #	Viscosity (kCps)	Optimum Cure hours/°C	Tg °C	CTE1, ppm	Modulus (Mpa)	Durometer
EW2000	717	20	UV	150	20	500	75D
EW7072	640	150	2h/130+2h/170	180	15	4000	80D
EW8002	667	50	1h/100+1h/165	150	15	3500	85D
EW8002N	891	50	1h/100+1h/165	150	15	3500	85D
EW8003	680	100	1h/100+1h/165	170	12	4000	85D
EW8004	929	50	0.5h/150	160	15	3500	85D

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