

ELECTRO-LITE IS UV LIGHT

ACRYLICS

ELC Type	Color (F=Filler)	Nominal Viscosity (CPS @ 77°F)	Nominal Hardness	Tensile Strength (psi)	Temp Range (Cured °F)	Elongation (at break)	Water Absorption (%)	CTE (PPM/°C)
4480	Straw to Amber	4,000	70D	2,000	-65/300	90%	7.6	141
4481	Clear	5,000	85D	7,000	-45/300	20%	0.8	129
4482	Light Straw	Thixotropic (Gel)	75D	3,500	-45/300	25%	1.5	90
4195	Red	Thixotropic (Paste)	-	4,000	-65/300	-	-	90
4415	Yellow	40,000	-	-	650 (max)	-	-	-
4497	Yellow	32,000	-	-	650 (max)	-	-	-
4M01	Clear	5,000	59D	2,600	-65/350	265%	2.6	-
4M11	Clear	10,000	51D	2,500	-65/350	260%	2.7	-
4M12	Clear	100	69D	2,700	-65/350	50%	3.0	-
4M21	Clear	5,000	53D	2,700	-65/350	250%	3.2	-
4M31	Clear	300	64D	3,300	-65/350	265%	5.3	-

EPOXIES

ELC Type	Color (F=Filler)	Nominal Viscosity (CPS @ 77°F)	Nominal Hardness	Tensile Strength (psi)	Temp Range (cured °F)	Tg °C (°F)	PEEL Lbs/in	CTE PPM/°C
2060A 2060AG	Gray (F)	20,000 Thixotropic	90D	3,000	-40/350	160 (320)	-	30
2062A 2062ALV	Gray (F)	Thixotropic 20,000	93D 92D	- -	-40/350 -40/350	160 (320) 160 (320)	- -	28 34
2500	Gray (F)	15,000	90D	3,200	-40/350	150 (302)	-	25
2510 2511	Gray (F)	25,000 Thixotropic	90D	3,000	-40/300	40 (104) 100 (212)	-	33 40
2710	Clear to Amber	800	65D	2,200	-40/265	5 (41)	7	80
2722 2722G2	Clear to Amber	7,500 8,000	80D	3,200 3,400	-40/265	120 (248) 95 (203)	22 16	75
2728 2728SP 2728HH 2728HH/SP 2728HTG 2728ETG	Amber/ Pink	Thixotropic	80D 83D 85D 86D 87D 88D	3,300 3,000 3,500 3,600 3,400 3,700	-40/265 -40/310 -40/310 -40/310 -40/350 -40/360	40 (104) 35 (95) 70 (158) 70 (158) 95 (203) 110 (230)	16 12 10 6 6 4	70 40 70 40 69 68
2732 2734	Clear to Amber	Thixotropic Self-Levelling	60A	600	-40/265	-5 (24)	12	75
2900 2900LV 2900H 2900F	Clear to Amber	800 400 200 800	85D 85D 88D 80D	- - - -	-40/300	80 (176) 80 (176) 100 (212) 75 (167)	- - - -	80 80 65 85

Data presented is provided as a guide in selecting an adhesive. Properties are typical, average values. Specifications are based on tests believed to be accurate. We strongly recommend thorough evaluation for any application. Electro-Lite Corporation makes no warranties (expressed or implied) and assumes no responsibility in connection with the use or inability to use these products.

Footnotes

- 1.) Epoxies will continue to "dark cure" even after exposure to UV.
- 2.) Epoxies require a minimum UV intensity of 100 mW/cm² to initiate a proper cure.
- 3.) All materials listed have a stable shelf life of up to 12 months. Maintain storage of material in original containers at 68°F ± 20°F. Types 4195, 4415 and 4497 have a 6 month shelf life.
- 4.) Epoxies containing fillers must be frozen in storage.

RT CURING TECHNOLOGY

Surface Res. ($\Omega \times 10^{13}$)	Dielectric Strength (Volts/mil)	Comments/Features
301	475	Structural bonding, coil terminating. Bonds to steel, aluminum and glass surfaces. Can be used in cryogenic applications.
122	700	Optically transparent. Designed for use in fiber optic applications. Refractive index (4481) is 1.48. Also used as clear potting adhesive. Type 4481-L is a low viscosity (150 cps) version. Refractive index is 1.52.
23	475	Rapid structural wire tacking of PCB's. Excellent adhesion to a wide variety of surfaces.
23	1575	For SMD attachment. Forms high strength, resilient bonds which eliminate critical matching of thermal expansion coefficients between SMD's and PCB material.
–	–	Type 4415 is a temporary, peelable solder mask.
–	–	Type 4497 is a temporary, water soluble solder mask.
90	625	Medical grade USP Class VI designed for use on polycarbonate, acrylic and other thermoplastics where a flexible joint is desired.
87	590	Medical grade USP Class VI designed for use on polycarbonate, acrylic and other thermoplastics where a flexible joint is desired.
97	855	Medical grade USP Class VI for use on rigid/flexible PVC and polycarbonate.
92	680	Medical grade USP Class VI for flexible joints on rigid/flexible PVC and polycarbonate.
100	775	Medical grade USP Class VI for flexible joints on rigid/flexible PVC and polycarbonate.
Volume Res. ($\times 10^{15} \Omega \text{ cm}$)	Dielectric Strength (Volts/mil)	Comments/Features
1.5	450 @ 125 mils	Encapsulant with very low ionics and outgassing. Type (AG) is a non-flowing, glob top version of 2060A.
1.5	450 @ 125 mils	Similar to 2060A with reduced CTE and improved moisture resistance. Particularly low in ionic impurities.
1.3	435 @ 125 mils	Standard potting and encapsulating material. Also used to adhere and fixture.
1.3	420 @ 125 mils	Semi-rigid encapsulating material. Type 2511 is thixotropic version, less flow, better for dipping and sealing.
0.5	4000 @ 125 mils	General purpose, semi-flexible for sealing and potting. Low viscosity, easy flow and penetration.
1.0	400 @ 125 mils	Semi-rigid material for use on rigid substrates and metals as well as plexiglass and polystyrene. Particularly effective on flame brushed polyolefins.
–	400 @ 125 mils	Semi-rigid, tough material for tacking, wire bonding and gap filling. Type 2728SP is a low CTE version of 2728 for high temperature cycling applications. Type 2728HH is a high heat resistant version. Type 2728HH/SP provides heat resistance and lower CTE. Type 2728HTG is a higher Tg version of 2728HH. Type 2728ETG provides highest heat resistance and Tg in the series. The ELC 2728 family of epoxies was designed for use in the assembly of disc drives.
0.1	400 @ 125 mils	Cures to an RTV-like soft consistency. For fixturing, tacking, strain relief and globbing. Low stress. Type 2734 is self levelling.
0.5 0.8 5.0 0.5	5,200 @ 1 mil	Conformal coating for PCB's, components and various substrates. Type 2900 provides a flexible, reworkable finish. Type 2900LV is the low viscosity version. Type 2900H has hardest finish for best protection. Type 2900F for use on flexible substrates. A fluorescent tracer can be added to any of this series.

Disclaimer of Warranty

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