

3M Light Cure Adhesives

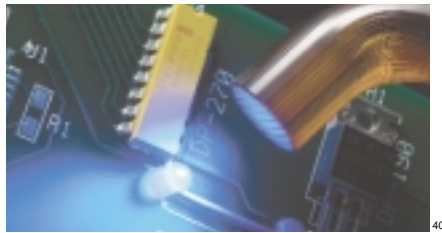
Precision bonding, potting, encapsulation, tacking, and more at the speed of light.

With cure speeds generally less than 5 seconds, you can raise the speed limit for many electronics assembly applications. These specialized acrylate formulations cure on demand when exposed to UV or visible light. And for precision targeting and placement, each adhesive in the line is available in 3, 5, 10, and 30ml EFD®-compatible syringes.

Use with manual, semi-automatic, or fully automatic dispensing systems to meet your production requirements for encapsulation, potting, fixturing, wire tacking, sealing, conformal coating, and lens bonding.

Select UV curing versions for thin films and coatings, and bonding heat-sensitive substrates. For curing through thicker sections, visible light formulations cure to depths of 2" to almost 4".

For visible light, the 3M Curing Light VL1 (at right) is a compact and convenient hand tool for spot curing.



Wire tacking – To reduce processing time, 3M™ Light Cure Adhesives cure on demand with exposure to UV or visible light.



Potting – All 3M™ Light Cure Adhesives feature superior depth of cure for potting applications.

Product	Features	Cure Mechanism	Viscosity @72°F (CPS)	Cured Color	Shore D Hardness	Tensile Strength (PSI) ¹	Overlap Shear Strength, PC-PC (PSI) ²
LC-1110	Semi-rigid bond.	UV	32,000	Colorless	80	3896	424
LC-1111	Flexible bond.	UV	645	Colorless	70	1616	539
LC-1112	Semi-rigid bond. Improved glass and metal adhesion.	UV	15,460	Colorless	83	4600	411
LC-1113	Flexible bond. Improved glass and metal adhesion.	UV	641	Colorless	71	2377	522
LC-1210	Semi-rigid bond.	Visible, UV	20,600	Light Yellow	78	3183	414
LC-1211	Flexible bond.	Visible, UV	488	Light Yellow	69	1426	436
LC-1212	Semi-rigid bond. Improved glass and metal adhesion.	Visible, UV	12,720	Light Yellow	83	4508	455
LC-1213	Flexible bond. Improved glass and metal adhesion.	Visible, UV	560	Light Yellow	69	1929	566
LC-1214	Very flexible bond. Color change indicator (red to light yellow).	Visible, UV	44,000	Yellow	40	1320	540

Note: The technical information and data on these pages should be considered representative or typical only, and should not be used for specification purposes.

(1) Based on ASTM D 638 (2) ASTM D 1002
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