

3M™ Liquid UV-Curable Adhesive LC-4200

Product Description

3M™ Liquid UV-Curable Adhesive LC-4200 is a 100% solids UV curable acrylic adhesive. 3M adhesive LC-4200 is suitable for mounting silicon wafers and other substrates to support glass carriers using the 3M™ Wafer Support System. 3M™ Liquid UV-Curable Adhesive LC-4200 has been designed to allow for post processing of mounted wafers at temperatures up to 180°C for extended periods as well as short excursions to 200°C+. The detailed performance of 3M adhesive LC-4200 depends on the substrate materials and topography and needs to be verified for individual applications.

Typical Uncured Adhesive Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Final product specifications and testing methods will be outlined in the product's Certificate of Analysis (COA) that is shipped with the commercialized product.

3M™ Liquid UV-Curable Adhesive LC-4200	
Property	Value
Base Resin	Acrylic Functional Polymer
Color	Clear, Orange-Brown
Density	1.035
Viscosity	2150 cP (@ 25°C)

Typical Cured Adhesive Properties

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3M™ Liquid UV-Curable Adhesive LC-4200			
Property	Value	Unit	Test Method
Modulus (@ 25°C)	9.4 x 10 ⁸	Pa	nanoindentation
Elongation to Break	15	%	ASTM D-698
Adhesion	0.2 - 1.5*	N/25mm	90° peel @ 125mm/min

*Adhesion depends on substrate and thermal history.

Storage and Shelf Life

The shelf life of 3M™ Liquid UV-Curable Adhesive LC-4200 is six months at room temperature in opaque bottle. Store this product at 25°C or below for maximum storage life. Keep from freezing and avoid light. Once installed in the 3M™ Wafer Support System Mounter, 3M adhesive LC-4200 is stable under normal use conditions.

Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is manufactured and deemed commercially available from 3M. The COA contains the 3M test methods, specifications limits and test results for the product's performance attributes that the product will be supplied against. Contact your local 3M representative for this product's COA.

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Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your 3M representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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