



3M™ Chemical-Resistant Adhesive Transfer Tape 96105CR

Product Description

3M™ Chemical-Resistant Adhesive Transfer Tape 96105CR features a 3M proprietary adhesive designed for electronic device component bonding. With exceptional chemical resistance, this 50 µm (2.0 mil) clear tape is ideal for high and medium surface energy substrates such as metals, polycarbonate (PC), poly(methyl methacrylate) (PMMA), acrylonitrile butadiene styrene (ABS), polyimide films, and ink-printed surfaces.

Key Features

- Excellent chemical resistance to a variety of household chemicals
- High bond strength to high and medium surface energy substrates such as metals, PC, PMMA, ABS, polyimide films, and ink-printed surfaces

Product Construction/Material Description

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

3M™ Chemical-Resistant Adhesive Transfer Tape 96105CR	
Property	Value
Adhesive Type	3M proprietary specialty adhesive
Adhesive Thickness	50 µm (2.0 mil)
Liner Type	Clear PET
Liner Thickness	50 µm (2.0 mil)
Color	Clear

Applications

- Electronic device component bonding

Application Techniques

Note: Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. Tape application below 10°C (50°F) is not suggested. Once properly applied, low temperature holding power is generally satisfactory.

The bond strength of 3M™ Chemical-Resistant Adhesive Transfer Tape 96105CR depends on the amount of adhesive-to-surface contact developed during application and substrate type and surface conditions. For maximum bond strength the surfaces should be thoroughly cleaned with a 50:50 mixture of isopropyl alcohol and water. Ideal tape application is accomplished when temperature is between 21°C-38°C (70°F-100°F) and the bond is allowed to dwell 72 hours. Initial tape application to surfaces at temperatures below 10°C (50°F) is not recommended. Moderate heat lamination (65°C at 72.5 psi for 1-5 minutes) is recommended on rough surfaces.

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Typical Physical Properties and Performance Characteristics

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 product.

3M™ Chemical-Resistant Adhesive Transfer Tape 96105CR		
Property	Method ¹	Value
SS 180° Peel adhesion @ 15 min RT dwell** oz/in N/mm kg/25.4mm	Test Method ASTM D3330	63 0.69 1.8
SS 180° Peel adhesion @ 72 hour RT dwell** oz/in N/mm kg/25.4mm	Test Method ASTM D3330	125 1.37 3.6
Static shear 500g @ 70°C	Test Method ASTM D3654	>10,000 Minutes
Temperature resistance Long term (days, weeks) Short term (minutes, hours)	3M test method	93°C (200°F) 149°C (300°F)

*Methods listed as ASTM are tested in accordance with the ASTM method noted

**Peel tests were completed with 2 mil PET film backing

Storage and Shelf Life

The shelf life of 3M™ Chemical-Resistant Adhesive Transfer Tape 96105CR is 6 months from the date of manufacture when stored in the original packaging materials and stored at 21°C (70°F) and 50% relative humidity.

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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Electronics Device Bonding

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