Double Coated PET Tape

89605, 89610

Technical Data Sheet **Aug, 2018**

Description

3M™ Double Coated Tape 89605, 89610 is a modified acrylic pressure sensitive adhesives on both sides of film carrier with a double PET liner. The key characteristics of this adhesive include a combination of high performance in adhesion and good shear holding power to a wide variety of materials at high temperature.

89605, 89610 is specially design for cell tape in LCD display market application, such as anti-lifting, anti-weaving, feature bonding, isolative film fixing, and system assembly.

Construction

Product Number	Faceside Adhesive Type/ Thickness	Carrier Type/ Thickness	Backside Adhesive Type/ Thickness	Liner Color, Type	Backside liner thickness	Faceside liner thickness
89605	Acrylic 0.019mm	Clear PET 0.012mm	Acrylic 0.019mm	Transparent PET	0.03mm	0.05mm
89610	Acrylic 0.044mm	Clear PET 0.012mm	Acrylic 0.044mm	Transparent PET	0.03mm	0.05mm

Handling

- Remove oil, water and dust on substrate before apply tape
- It may be necessary to use primer on some substrates prior to bonding. Feel free to contact our sales rep.
- Stock indoor warehouse and do not leave under direct sun.

3M Double Coated PET Tape

89605, 89610

Typical Physical Properties

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

(ASTM D3330, 180 degree peel)	89605 (kg/in)	89610 (kg/in)
20mins Adhesion to steel	1.7	3.0
20mins Adhesion to glass	1.7	3.0
20mins Adhesion to polycarbonate	1.6	3.0
72hrs Adhesion to steel	2.0	3.5
72hrs Adhesion to glass	2.0	3.5
72hrs Adhesion to polycarbonate	1.9	3.5

Shear Strength

ASTM D3654 (1x1in)

1000g at 23C +10000mins

Relative High Temperature Operating Range

Long Term (Days, weeks) 93ºC

Short Term (minutes, hours) 121ºC

Shelf Life

To obtain best performance, use this product within 12 months from manufacturing date and store under normal conditions of 21℃ and 50% R.H. in the original carton.

Application Techniques

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improves bond strength.

To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane. Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

Ideal tape application temperature range is 70° F to 100° F (21° C to 38° C). Initial tape application to surfaces at temperatures below 50° F (10° C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

Important Notice

3M MAKES NO WARRANTES, EXPRESS OR IMPLED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for

a particular purpose and suitable for user’s method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user’s knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user’s method of application.

Electronic Device Bonding,
Greater China Area,
3M Taiwan Ltd.