



Double Coated PET Tapes

8008PT, 8018PT

Temporary Technical Data

revised on Sept. 10th, 2002

Product Description:

8008PT, 8018PT double-coated film tape features a medium-firm acrylic pressure sensitive adhesive system. 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, including many plastics.

8008PT, 8018PT are specially designed for display market applications, such as optically management films attachment, foam, isolative film fixing, and system assembly.

Construction:

Product Number	Adhesive/ Color/ Thickness	Faceside adhesive	Carrier	Backside adhesive	Liner Color, Print	Liner Caliper
8008PT	Translucent, 0.0015" (0.04mm)	0.0005" (0.013mm)	PET, 0.0005" (0.012mm)	0.0005" (0.013mm)	PET Film Clear, White 3M logo print	0.002" (0.051mm)
8018PT	Translucent, 0.0025" (0.06mm)	0.001" (0.025mm)	PET 0.0005" (0.025mm)	0.0005" (0.013mm)	PET Film Clear, Grey 3M logo print	0.002" (0.051mm)

Feature

1. 8008PT, 8018PT feature a medium firm acrylic pressure sensitive adhesive system. The key characteristics of this adhesive include a combination of high performance in adhesion and good shear and holding power to a wide variety of materials, including many plastics.
2. 8018PT, 8008PT provides excellent stability to reduce stretching and allows to more precise alignment during application, and no residue when tearing them off in reworking process.

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.

	8008PT	8018PT
Adhesion to steel: (ASTM D3330, 180 degree peel)	(Kg/in)	(Kg/in)
Backside		
20 mins RT	1.0	1.0
72 hrs RT	1.4	1.4
Faceside		
20 mins RT		1.2
72 hrs RT		1.8
Adhesion to Polycarbonate: (ASTM D3330, 180 degree peel)		
Backside		
20 mins RT (Kgw/in)	1.0	1.0
72 hrs RT	1.4	1.4
Faceside		
20 mins RT (Kgw/in)		1.1
72 hrs RT		1.8
Relative High Temperature Operating Ranges:		
Continuously (day-week):	250°F (121°C)	
Short Term (minutes-hours):	300°F (149°C)	
Relative Solvent Resistance:	Good	
U. V. Resistance:	Good	

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. Note: 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 WARRANTIES, EXPRESS OR IMPLIED, 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.

Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

3M 8008PT, 8018PT are manufactured under a 3M's quality system registered to ISO 9002 standards; and environmental protection system registered to ISO 14000 standards.