



Double Coated PET Tapes

8004PT, 8004DL, 8018PT, 8018DL

Technical Data

March, 2009

Product Description:

8004PT, 8004DL, 8018PT, 8018DL 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.

8004PT, 8004DL, 8018PT, 8018DL 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	Primary liner Color, Print	Liner Caliper
8004PT 8004DL	Translucent, 0.0015" (0.039mm)	0.0005" (0.013mm)	PET, 0.0005" (0.013mm)	0.0005" (0.013mm)	Blue translucent PET film w/light gray 3M logo printing	0.002" (0.051mm)
8018PT 8018DL	Translucent, 0.0025" (0.063mm)	0.001" (0.025mm)	PET 0.001" (0.025mm)	0.0005" (0.013mm)	Blue translucent PET film w/dark gray 3M logo printing	0.002" (0.051mm)

- Release force of blue translucent liner is < 20g/in
- 8004DL, 8018DL is the double-liner product of 8004PT, 8018PT respectively, and the secondary liner is the clear transparent PET film, which thickness is 0.002" (0.051mm).

Feature

1. 8004PT, 8004DL, 8018PT, 8018DL 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. 8004PT, 8004DL, 8018PT, 8018DL 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.

	8004PT 8004DL	8018PT 8018DL
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.

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