



DC PET Tape

GI605 • GI610 • GI615

Technical Data

Apr. 2011

Product	GI605, GI610, GI615: 3M™ Double Coated PET Tape with a thin polyester film
Description	for dimensional stability and improved handling with ease of die cutting and laminating. The high performance adhesive provides well-balanced high adhesion and good shear holding power to a variety of surfaces.

Construction	3M™ DC PET Tape		
	GI605	GI610	GI615
Adhesive Type:	Acrylate	Acrylate	Acrylate
Adhesive Carrier:	PET	PET	PET
Release Liner:	White PCK with 3M logo	White PCK with 3M logo	White PCK with 3M logo
Approximate Thickness:			
Adhesive	0.75 mil (19 micron)	1.7 mil (44 micron)	2.75 mil (69 micron)
Carrier	0.5 mil (12 micron)	0.5 mil (12 micron)	0.5 mil (12 micron)
Adhesive	0.75 mil (19 micron)	1.7 mil (44 micron)	2.75 mil (69 micron)
Release Liner	5.0 mil (125 micron)	5.0 mil (125 micron)	5.0 mil (125 micron)

3M™ DC PET Tape

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.

Peel Adhesion:

ASTM D3330 modified, 180 degree peel, 12 in./min.

305 mm/min. 2.0 mil polyester to various surfaces.

Construction	Substrate	3M™ DC PET Tape		
		GI605	GI610	GI615
		Oz/in (N/100mm)	Oz/in (N/100mm)	Oz/in (N/100mm)
15 min dwell @ RT	SUS	54 (60)	85 (94)	100 (110)
	ABS	47 (51)	70 (77)	83 (92)
	Polycarbonate	51 (56)	82 (91)	89 (98)
3 Days dwell @ RT	SUS	60 (65)	94 (102)	116 (127)
	ABS	52 (57)	74 (81)	99 (109)
	Polycarbonate	58 (64)	89 (98)	109 (120)

Shear Adhesion:

ASTM D-3654 Procedure H

1" × 1" Overlap, minutes to failure.

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RT (23°C) 500g, stainless steel	>5,000	>5,000	>5,000

Relative Solvent Resistance:

When properly applied, 3M™ DC PET Tape can withstand splashes of numerous chemicals including acetone, isopropyl alcohol, and cleaners.

Water Resistance:

Immersion in water has no appreciable effect on the bond strength at room temperature.

Relative Temperature Resistance:

Short Term High Temperature 350°F (177°C)

Long Term High Temperature 185°F (75°C)

Shelf Life:

Product retains its performance and properties for two years from date of manufacture if properly stored at room temperature conditions of 72°F (22°C) and 50% relative humidity. Storage in a plastic bag is recommended.

3M™ DC PET Tape

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.

Application

Ideas

- Medical/non-medical diagnostic test strips
 - Plastic film lamination/bonding
 - Splicing
 - Foam lamination
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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 any loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.



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