



Double Coated Tape 9019

Product Data Sheet

May 2014
Supersedes: New

Product Description

3M™ Double Coated Tape 9019 with 3M™ Adhesive 300 feature a thin polyester film for dimensional stability and improved handling with ease of die cutting and laminating. The high tack adhesive provides relatively high initial adhesion and good shear holding power to a variety of surfaces. The carrier also provides easier handling during slitting and die cutting.

Key Features

3M™ Adhesive 300 is a medium-firm acrylic adhesive system featuring both high initial adhesion and good high temperature holding power.

Physical Properties

Faceside Adhesive Thickness	Carrier Type Thickness	Backside Adhesive Thickness	Liner Colour, Type, Thickness	Total Thickness without liner
Acrylate Type 300 0,0084 mm	Clear PET 0,0130 mm	Acrylate Type 300 0,0084 mm	White Densified Kraft 0,079 mm	0,030 mm

Note 1: Faceside adhesive is on the interior of the roll, exposed when unwound.

Note 2: Backside adhesive is on the exterior of the roll, exposed when liner is removed.

Note 3: PET (Polyester). The caliper listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc.

Performance Characteristics

Adhesion 15 min. dwell at RT, modified ASTM D-3330, 90° peel with 0,05 mm PET.	Stainless Steel	9,5 N/25 mm
Adhesion 72 h dwell at RT, modified ASTM D-3330, 90° peel with 0,05 mm aluminium foil.	Polyester Polycarbonate ABS Polypropylene	10,4 N/25 mm 11,2 N/25 mm 9,6 N/25 mm 10,6 N/25 mm
Adhesion 15 Min. dwell at RT, modified ASTM D-3330, 180° peel with 0,05 mm aluminium foil.	Stainless Steel	11,4 N/25 mm
Adhesion 72 h dwell at RT, modified ASTM D-3330, 180° peel with 0,05 mm aluminium foil.	Stainless Steel	13,5 N/25 mm
Shear strength at RT. Modified ASTM D-3654, 25,4 mm square sample size, 1000 g.	Stainless Steel	4303 Minutes
Shear strength at 70°C. Modified ASTM D-3654, 25,4 mm square sample size, 500 g.	Stainless Steel	6,7 Minutes

Temperature Resistance

Short Term, (minutes, hrs)	125 °C
Long Term, (days, weeks)	85 °C

Application Ideas

Medical/non-medical diagnostic test strips

- Plastic film lamination/bonding
- Splicing
- Foam lamination
- Cell phone lens attachment
- Gasket attachment in hand held devices and laptops

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.*

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

*Note: Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

Storage

Store in cool and dry conditions at room temperature.

Shelf Life

3M 9019 has a shelf life of 12 months from date of despatch by 3M when stored in the original carton at 21°C & 50% Relative Humidity.

Precautionary Information

Refer to product label and Material Safety Data Sheet for health and safety information before using the product.
For information please contact your local 3M Office.
www.3M.com

Important Notice

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations

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