



Technical Data Sheet

3M™ Double Coated Tissue Tape 56215



[Product Details](#)

Product Description

3M™ Double Coated Tissue Tape 56215 is a high tack, multipurpose tape engineered to provide durable bonds to a variety of materials, including foams – even at low temperatures. Target applications include Foam Lamination and Bonding, Packaging and Paper Bonding, Durable Graphic Bonding, Dissimilar Material Bonding, and Plastics Assembly.

Product Features

- High initial tack - quick stick for fast and secure bonding
- Designed for low temperature performance
- Reworkable - resists tissue splitting when peeled or removed
- Translucent tape
- Conformable tape holds to curved and uneven surfaces
- Made via a solvent-free adhesive coating process

Technical Information Note

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

Typical Physical Properties

Attribute Name	Test Method	Value
Adhesive Carrier		Translucent Tissue
Carrier Thickness		0.033 mm
Total Tape Thickness	ASTM D3652	0.15 mm
Liner		PCK
Liner Thickness		0.135 mm
Primary Liner Color		White

Typical Performance Characteristics

180° Peel Adhesion

Backing: 2 mil Aluminum Foil

Test Method: ASTM D3330

Dwell Time	Temperature	Substrate	Value
20 min	23 °C	Stainless Steel	6.1 N/cm ¹
72 h	23 °C	Stainless Steel	9.3 N/cm ¹
72 h	70 °C	Stainless Steel	19.3 N/cm ¹
20 min	23 °C	Polypropylene (PP)	6.0 N/cm ¹
72 h	23 °C	Polypropylene (PP)	7.2 N/cm ¹
72 h	70 °C	Polypropylene (PP)	6.5 N/cm ¹
20 min	23 °C	Polycarbonate (PC)	8.1 N/cm ¹
72 h	23 °C	Polycarbonate (PC)	9.9 N/cm ¹
72 h	70 °C	Polycarbonate (PC)	6.2 N/cm ¹
20 min	23 °C	ABS	6.7 N/cm ¹
72 h	23 °C	ABS	5.5 N/cm ¹
72 h	70 °C	ABS	8.0 N/cm ¹

¹ 300 mm/min (12 in/min)

90° Peel Adhesion

Backing: 2 mil Aluminum Foil

Test Method: ASTM D3330

Dwell Time	Temperature	Substrate	Value
20 min	23 °C	Stainless Steel	5.2 N/cm ¹
72 h	23 °C	Stainless Steel	8.7 N/cm ¹
72 h	70 °C	Stainless Steel	13.0 N/cm ¹
20 min	23 °C	Polypropylene (PP)	5.1 N/cm ¹
72 h	23 °C	Polypropylene (PP)	6.5 N/cm ¹
72 h	70 °C	Polypropylene (PP)	5.9 N/cm ¹
20 min	23 °C	Polycarbonate (PC)	6.9 N/cm ¹
72 h	23 °C	Polycarbonate (PC)	8.6 N/cm ¹
72 h	70 °C	Polycarbonate (PC)	4.1 N/cm ¹
20 min	23 °C	ABS	5.4 N/cm ¹
72 h	23 °C	ABS	7.7 N/cm ¹
72 h	70 °C	ABS	5.8 N/cm ¹

¹ 300 mm/min (12 in/min)

Static Shear

Substrate: Stainless Steel

Dwell Time: 72 h

Backing: 2 mil Aluminum Foil

Test Method: ASTM D3654

Temperature	Test Condition	Value
23 °C	1000 g	10,000 min ¹
70 °C	500 g	10,000 min ¹

¹ 25 x 25 mm (1 in x 1 in) sample area, test terminated after 10,000 minutes

Attribute Name	Value
Long Term Temperature Resistance	70 °C ¹
Short Term Temperature Resistance	121 °C ²

¹ Maximum temperature where tape supports 500g load per 6.5cm² (1 in²) in static shear for 10,000 minutes.

² Maximum temperature where tape supports 500g load per 6.5cm² (1 in²) in static shear for 60 minutes.

T-Peel Adhesion

Temperature: 23 °C

Dwell Time: 72 h

Backing: 2 mil Aluminum Foil

Test Method: ASTM D1876

Substrate	Value
Cross-linked Polyethylene Foam	Foam Picking ¹
Polyester Urethane Foam	Foam Tear ¹
Polyether Urethane Foam	Foam Tear ¹
EPDM	Foam Tear ¹

¹ Failure mode

Typical Environmental Performance

Temperature: 32 °C
Dwell Time: 72 h
Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330
Environmental Condition: 90 %RH

Attribute Name	Substrate	Value
180° Peel Adhesion	Stainless Steel	16.4 N/cm ¹
90° Peel Adhesion	Stainless Steel	12.0 N/cm ¹
180° Peel Adhesion	Polypropylene (PP)	7.4 N/cm ¹
90° Peel Adhesion	Polypropylene (PP)	6.4 N/cm ¹
180° Peel Adhesion	Polycarbonate (PC)	7.5 N/cm ¹
90° Peel Adhesion	Polycarbonate (PC)	7.3 N/cm ¹
180° Peel Adhesion	ABS	6.0 N/cm ¹
90° Peel Adhesion	ABS	7.4 N/cm ¹

¹ 300 mm/min (12 in/min)

Electrical and Thermal Properties

Attribute Name	Test Method	Value
Glass Transition Temperature (Tg)	ASTM E1356	-58 °C ¹

¹ Glass Transition Temperature (Tg) determined using DSC Analyzer with a heating rate of 4 °C per minute. First heat values given.

Handling/Application Information

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.

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

Storage and Shelf Life

Store under normal conditions of 16° to 27 °C and 40 to 60 % relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Automotive Disclaimer

Select Automotive Applications:

This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Information

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. You can click or scan QR code to see contact detail or visit www.3M.com

Important Information: All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors 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 or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law. 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.

ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

3M United Kingdom PLC
3M Centre
Cain Road, Bracknell, RG12 8HT
3m.co.uk/iatd

3M is a trademark of 3M Company.
©3M 2024 (12/24)