

3M™ Conformable Bonding Tape 5076

Technical Data Sheet

General Description

3M™ Conformable Bonding Tape 5076 offers very good adhesion performance and high flexibility. These tapes are specially designed for rough or highly irregular surfaces, providing strong adhesion for applications such as automotive wire harness assembly, and offering excellent conformability for sealing applications.



3M Conformable Bonding Tape 5076 offers the following key features:

- Excellent initial adhesion and static performance on uneven substrates
- Highly conformable tape for sealing and bonding to rough or irregular surfaces
- It is a flexible black tape with independent foam, allowing it to absorb irregularities and provide sealing and offering more flexibility than 3M™ Acrylic Foam Tapes
- Excellent adhesion performance with superior weather resistance, heat resistance, and chemical resistance
- Can be applied to various substrates used for automotive parts without special surface treatment*

*Note: Depending on the material (e.g., EPDM rubber), 3M™ Adhesion Promoter may be required. Please check before use.

Typical applications for 3M Conformable Bonding Tape 5076 include sealing or bonding support for weather-strips, various interior or exterior part attachment, foam bonding, and fixing wire harness to the headliner.

Product Construction



Physical Properties

Property	5076
Core	Acrylic Foam Core
Core Color	Black
Thickness	0.5 mm (includes 0.04 mm backing film thickness)
Backing Film	Transparent, Polyester Film

Performance Properties

3M understands that development of automotive applications is typically driven by specification requirements and performance. Each OEM has their own unique criteria, and 3M continues to develop suitable products to meet those demands. Test reports are available upon request. Please contact your 3M application engineer for support and to obtain specific test data.

Typical performance of 3M Conformable Bonding Tape (CBT) 5076 is shown below. Peel and shear values depend on substrate characteristics and/or paint composition. These values are for reference only, and not to be used for specification purposes. For specification values please see the certificate of analysis.

Conditions/Test Parameter Definitions:

- Initial State = 23°C, 20 mins
- Normal State = 23°C, 24 hours
- High Temperature = 23°C, 24 hours -> 80°C
- Heat-aging = 23°C, 24 hours -> 80°C, 336 hours -> 23°C, 24 hours
- Warm Water Immersion = 23°C, 24 hours -> 40°C water, 336 hours -> 23°C, 24 hours
- Wax-remover immersion = 23°C, 24 hours -> wax-remover, 1 hour -> 23°C, 24 hours
- Immediate state = 5, 23, 40°C, 30 seconds

180° Peel Adhesion to Painted Panel and Polypropylene (PP) Substrate
Tape Size: 10 mm width; Tape backing: 25 µm PET film; Rolling Pressure: 2 kg roller one-way; Peel Speed: 50 mm/min.

Substrate	Conditions/Test Parameters	5076 Typical Performance Value (N/cm)
Painted Panel ¹ without Adhesion Promoter	Initial State	11.0
	Normal State	12.0
	High Temperature	5.0
	Heat-aging	16.0
	Warm Water Immersion	14.1
	Wax Remover Immersion	10.5
PP with 3M™ Adhesion Promoter K520	Initial State	12.0
	Normal State	12.0
	High Temperature	5.0
PP without Adhesion Promoter	Initial State	6.3
	Normal State	6.7
	High Temperature	2.7

90° Peel Strength to Painted Panel
Tape Size: 10 mm width; Tape backing: 25 µm PET film; Rolling Pressure: 2 kg roller one-way; Peel Speed: 300 mm/min.

Substrate	Conditions/Test Parameters	5076 Typical Performance Value (N/cm)	
Painted Panel ¹ without Adhesion Promoter	Immediate State	5°C	7.3
		23°C	8.3
		40°C	9.5

¹ Painted panel: White colored painted panel used on a vehicle

Shelf Life

Three years from date of manufacturing when stored in general indoor warehouse conditions, defined as approximately 4°C-38°C(40°F-100°F) and 30-70% relative humidity. The optimum storage conditions are 22°C (72°F) and 50% relative humidity.

Regulatory Information

The product is published as a material entry and is available for access on www.mdssystem.com. For product IMDS I.D. number, email requests to 3M-IMDSrequest@mmm.com.

Contact Information

The information provided in this technical document is intended as a guide for this product. For more information or help in selecting a 3M product for an application, please contact your 3M application engineering representative or [connect with a 3M expert](#).

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