

Technical data sheet



Product: 9087

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: DOPPELSEITIG

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3M 9097 DOUBLE COATED TAPE

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Technical Data Sheet

3M™ High Performance Double Coated Tape
9087

[Product Details](#)[Regulatory Info/SDS](#)

Product Description

3M™ Double Coated Tapes with 3M™ Adhesive 375 provides a high level of adhesive peel and shear performance. The adhesive system used on these products provides good adhesion to both high and low surface energy substrates. The excellent initial tack ensures that a bond of good integrity is achieved soon after application.

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 |
|----------------------|-------------|--------------------------|
| Color | | White |
| Adhesive Type | | Modified Acrylic |
| Adhesive Carrier | | PVC |
| Carrier Thickness | | 0.038 mm (1.5 mil) |
| Total Tape Thickness | ASTM D3652 | 0.26 mm (10.2 mil) |
| Liner | | Paper (Glassine) |
| Liner Thickness | | 0.07 mm (3 mil) |
| Primary Liner Color | | White with Green 3M Logo |

Typical Performance Characteristics

180° Peel Adhesion

Temperature: 22 °C (72 °F)

Test Condition: Faceside

Dwell Time: 72 h

Backing: 2 mil Aluminum Foil

Test Method: ASTM D3330

| Substrate | Value |
|----------------------------------|----------------------------------|
| ABS | 16 N/cm (146 oz/in) ¹ |
| Glass | 18 N/cm (164 oz/in) ¹ |
| High Density Polyethylene (HDPE) | 9 N/cm (82 oz/in) ¹ |
| High Pressure Laminate | 13 N/cm (119 oz/in) ¹ |
| Polycarbonate (PC) | 16 N/cm (146 oz/in) ¹ |
| Stainless Steel | 16 N/cm (142 oz/in) ¹ |

¹ 12 in/min (300 mm/min)

Static Shear

Test Method: ASTM D3654

| Temperature | Test Condition | Value |
|----------------|----------------|-------------------------|
| 22 °C (72 °F) | 1000g | 10,000 min ¹ |
| 70 °C (158 °F) | | 10,000 min ¹ |

¹ 1 in x 1 in sample area, test terminated after 10,000 minutes

| Attribute Name | Value |
|-----------------------------------|-----------------------------|
| Short Term Temperature Resistance | 85 °C (185 °F) ¹ |
| Long Term Temperature Resistance | 70 °C (158 °F) ² |

¹ Short Term (minutes, hour)

² Long Term (day, weeks)

| Attribute Name | Value |
|------------------------|-------------------|
| Plasticizer Resistance | Good ¹ |

¹ It is suggested that an evaluation is conducted prior to use to ensure compatibility. Dwell of 10 days at 158°F (70°C) will usually accelerate any potential plasticizer problems. Plasticizers typically found in materials like PVC and some rubbers.

Typical Environmental Performance

| Attribute Name | Value |
|--------------------|-----------|
| Solvent Resistance | Good |
| UV Resistance | Excellent |

Handling/Application Information

Application Examples

- POP Displays
- Plastic Extrusions
- Metal Fabrication
- Blister Packs and Packaging
- Sports Equipment
- Badge and Nameplates
- Indoor/Outdoor Signs
- Fabric and Leather Stitching
- Blind Manufacturers
- Print Finishing
- Furniture Trim
- Splicing

Storage and Shelf Life

Store in original carton at 70°F (21°C) and 50% relative humidity.

If stored under proper conditions, product retains its performance and properties for 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.

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ISO Statement

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

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