



Technical Data Sheet

3M(TM) Pre-Laminated Carry Handles 8381



[Regulatory Info/SDS](#)

Product Description

3M™ Pre-Laminated Carry Handles 8381 are durable plastic strips with a non-tacky center insert and adhesive designed to adhere to both sides of a box or package, allowing for a convenient and easy way to transport the item with a fraction of the material than traditional plastic bags. Handle inserts can be custom printed with customized artwork with store branding, barcoding, or other purposes. 3M™ Pre-Laminated Carry Handles 8381 are available in three standard widths with a wide choice of insert materials. They come in a level-wound roll that works with automated handle application equipment.

Product Features

- Inserts can be printed with custom colors and graphics for improved branding, promotional messages, or in-store security
- Wide variety of insert materials are available
- Excellent adhesion to a variety of surfaces
- Compatible with automated handle application equipment
- Choose from 3 different widths and customized lengths
- Reduces packaging materials

Technical Information Note

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

Typical Physical Properties

Attribute Name	Value
Backing	MOPP
Adhesive Type	Pressure-sensitive rubber resin
Product Construction	Paper insert material is most common; other handle materials such as foam, clear PET, and HDPE are available. Consult with 3M Application Engineering for choices.
Max Load Per Handle	30 lb ¹

¹ Maximum load capacity is dependent on slit width, substrate and product format. 3M recommends application testing be conducted to validate weight capacity.

Test Method: ASTM D3652

Attribute Name	Value
Total Tape Thickness	0.073 mm (2.87 mil)
Backing Thickness	0.05 mm (2 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	6 N/cm (55 oz/in) ¹
Elongation at Break	ASTM D3759		40 %
Tensile Strength	ASTM D3759		170 N/cm (97 lb/in) ²

¹ 12 in/min (300 mm/min)

² Machine Direction

Handling/Application Information

Application Examples

- Handling products, such as small appliances, small electronics, toys, lawn, garden, houseware and hardware items and some industrial products.
- Combining products (multipacks, duo-pouches or bags).
- Providing special promotional messages or UPC codes.

Application Techniques

Recommended Surfaces

- Paperboard (printed and unprinted)
- Corrugated cardboard
- Polyethylene and polypropylene (strong shrink film/poly bags)
- Polyester film

Surfaces That Should Be Reviewed for Suitability

- Wax coated/siliconized surfaces
- Wet surfaces (moisture condensation)
- Cold surfaces (<50°F [10°C])
- Some lacquer coated board
- Rough textured surfaces on which tape surface contact is significantly reduced
- Polyvinyl chloride (PVC) film

Contact 3M sales representative or application engineer for suggestions on automated equipment.

Storage and Shelf Life

Store under normal conditions of 60°F to 80°F (16° to 27°C) and 40% to 60% relative humidity in the original carton. To obtain best performance, use this product within 18 months from date of manufacture.

Available Sizes

Attribute Name	Value
Handle Dimensions	custom
Core Size (ID)	76, 152 mm (3, 6 in)
Standard Width	25, 30, 37.5 mm (1, 1.2, 1.5 in)

Information

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ISO Statement

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3M
Industrial Specialties Division
3M Center, Building 225-3S-06 St. Paul, MN 55144-1000
800-362-3550 • 877-369-2923 (Fax)
www.3M.com

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