

Industrial Adhesives and Tapes Division



3M solutions for increased productivity, efficiency and lightweighting.



Composites

Market Overview

Composites, fiber reinforced plastics, are used in a wide variety of applications to reduce weight, provide improved environmental resistance, property enhancement, improved aesthetics, greater design options and increased stiffness to weight ratio.

Priority Segments Include:

- ▶ Composite Producers
- ► Aerospace
- ► Marine / Boat Building
- ► Bridges / Fiberglass
- ▶ Automotive Tiers
- ► Turbine Blade
- ► Sporting Goods
- ▶ Bus / Rail / Specialty Vehicles
- ► Truck / Trailer



Why choose a tape or adhesive?

Benefits of tape and adhesive bonding solutions

- ► Improves aesthetics
- ► Potential for light weighting
- Quick and easy application

Benefits of a tape solution



- Immediate handling strength
- Bonds and seals
- ▶ Ideal for dynamic loads

Benefits of an adhesive solution



- Replaces welds and mechanical fasteners
- High strength allows use of smaller bond areas
- Quick application time
- Initially repositionable

Go To 3M Industrial Adhesives and Tapes for Your Application



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Composites

Dry Layup of Fibers: Pre-Resin Infusion Holding

Scotch® ATG Adhesive Transfer Tape 969



- ► A high tack adhesive transfer tape
- Holds well to glossy surfaces and most plastics
- ► Bonds well to smooth and moderately textured surfaces
- ► Conforms easily to curves and contours
- ► Leaves no mess, no residue and no odor
- ► Quick, controlled application with Scotch® ATG Adhesive Applicator 700
- ▶ 5 mil

UPC	Description/Size (W x Roll Length)	Case Qty
0-00-21200-67667-3	☐ Clear, 0.25 in x 18 yd	12
0-00-21200-31493-3	☐ Clear, 0.50 in x 18 yd	24
0-00-51131-06493-5	☐ Clear, 0.50 in x 18 yd	72
0-00-21200-05671-0	☐ Clear, 0.50 in x 18 yd	12
0-00-21200-05672-7	☐ Clear, 0.75 in x 18 yd	12
0-00-21200-87399-7	☐ Clear, 0.25 in x 36 yd	144
0-00-21200-15682-3	☐ Clear, 0.50 in x 36 yd	72
0-00-21200-15683-0	☐ Clear, 0.75 in x 36 yd	12
0-00-21200-24254-0	☐ Clear, 1.5 in x 36 yd	24
0-00-21200-19261-6	☐ Clear, 2 in x 36 yd	24

Dry Layup of Fibers

3M™ Hi-Tack Composite Spray Adhesive 71



- ► A high tack mist spray aerosol
- Securely bonds lightweight materials
- ► Compatible with epoxy, vinyl ester and polyester resins
- Available in visible green for spray pattern control — helps avoid over spraying

UPC	Description/Size		Case Qty
0-06-38060-14505-0	☐ Clear, large cylinder (30 lb)		1
0-06-38060-14506-7	Green, large cylinder (30 lb)		
0-00-76308-14327-5	☐ Clear, 18.4 oz aerosol can		40
0-00-76308-14329-9	Green, 18.4 oz aerosol can		12



Autoclave

3M™ Polyester Tape 875/876



- ► Holds TC wires, vacuum bagging materials, and tooling
- Good initial tack and holding strength
- ► Clean removability from stainless steel, aluminum, and glass
- ► Heat resistant

UPC	Description/Size (W x Roll Length)	Case Qty
875 — 1.0 mil		
0-00-76308-14358-9	☐ Green, 1 in x 72 yd	48
0-06-38060-14486-2	☐ Green, 1 in x 72 yd	24
0-00-76308-86611-2	☐ Green, 2 in x 72 yd	24
0-06-38060-14478-7	☐ Green, 2 in x 72 yd	24
0-00-76308-14361-9	☐ Green, 3 in x 72 yd	16
0-06-38060-14608-8	☐ Green, 3 in x 72 yd	16
876 — 2.0 mil		
0-06-38060-14488-6	☐ Green, 1 in x 72 yd	24
0-00-76308-14365-7	☐ Green, 1 in x 72 yd	48
0-00-76308-86617-4	☐ Green, 2 in x 72 yd	24
0-06-38060-14487-9	☐ Green, 2 in x 72 yd	24
0-06-38060-14614-9	☐ Green, 3 in x 72 yd	16

Composites

Masking

3M™ Performance Yellow Masking Tape 301+



- ► Removes cleanly in one piece with no adhesive residue
- Can withstand high surface temperatures for up to 30 minutes
- ► Sticks to most surfaces
- Colored backing improves visibility during the masking process
- ▶ 6.3 mil

UPC	Description/Size (W x Roll Length)	Case Qty	
Bulk			
0-00-51115-64749-9	☐ Yellow, 12 mm x 55 m	72	
0-00-51115-64750-5	☐ Yellow, 18 mm x 55 m	48	
0-00-51115-64751-2	☐ Yellow, 24 mm x 55 m	36	
0-00-51115-64752-9	☐ Yellow, 36 mm x 55 m	24	
0-00-51115-64753-6	Yellow, 48 mm x 55 m	24	
0-00-51115-64754-3	☐ Yellow, 72 mm x 55 m	12	
0-00-51115-64755-0	☐ Yellow, 96 mm x 55 m	8	
Individually Wrapped			
0-00-51115-64756-7	☐ Yellow, 24 mm x 55 m	36	
0-00-51115-64758-1	☐ Yellow, 48 mm x 55 m	24	
0-00-51115-64757-4	☐ Yellow, 36 mm x 55 m	24	

3M™ High Performance Green Masking Tape 401+



- ► Removes cleanly in one piece with no adhesive residue
- Can withstand high surface temperatures for up to 30 minutes
- Conforms to irregular surfaces and remains in place around corners and over contours
- ► Resists bleed-through to help create sharp lines
- Colored backing improves visibility during the masking process
- ▶ 6.7 mil

Description/Size (W x Roll Length)	Case Qty	
☐ Green, 12 mm x 55 m	48	
☐ Green, 18 mm x 55 m	48	
☐ Green, 24 mm x 55 m	24	
☐ Green, 36 mm x 55 m	16	
☐ Green, 48 mm x 55 m	12	
☐ Green, 72 mm x 55 m	8	
☐ Green, 96 mm x 55 m	8	
Individually Wrapped		
☐ Green, 48 mm x 55 m	12	
	Green, 12 mm x 55 m Green, 18 mm x 55 m Green, 24 mm x 55 m Green, 36 mm x 55 m Green, 48 mm x 55 m Green, 72 mm x 55 m Green, 72 mm x 55 m Green, 96 mm x 55 m	



Structural Bonding

3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesives DP6310NS



- ► Bonding plastics, metals and wood
- ► Can replace rivets and screws in attaching composites to other substrates
- ► Convenient hand-held applicator

UPC	Description/Size	Case Qty
0-00-76308-86407-1	■ Green, 48.5 mL Duo-Pak	12
0-00-76308-86398-2	■ Green, 400 mL Duo-Pak	6
0-00-76308-86782-9	■ Green, 5 gallon pail, Part A	5
0-00-76308-86748-5	■ Green, 5 gallon pail, Part B	5
0-00-76308-86783-6	Green, 50 gallon drum, Part A	1
0-00-76308-86749-2	■ Green, 50 gallon drum, Part B	

Attachments

M™ Adhesive Sealant 760 UV Forms permanent elastic bonds to allow joint movement Bonds to plastics, metals, fiberglass, and wood Gap filling capabilities Excellent UV resistance 10–30 minute skin time, paintable immediately Low VOC

UPC	Description/Size	Case Qty
0-00-48011-62817-2	■ Black, 290mL cartridge	
0-00-48011-62819-6	☐ Gray, 290mL cartridge	12
0-00-48011-62815-8	☐ White, 290mL cartridge	
0-00-48011-62818-9	■ Black, 600mL sausage pack	
0-00-48011-62820-2	☐ Gray, 600mL sausage pack	12
0-00-48011-62816-5	□ White, 600mL sausage pack	
0-00-76308-86891-8	■ Black, 5 gallon drum	1

Composites are better suited to fabrication and assembly by adhesive bonding rather than traditional mechanical fixings, both from a weight savings and mechanical performance perspective.

Composites are used in new markets and applications everyday and it's a market open to innovation and new ways of doing things.

Be the leader to transform your industry, remake the world of making things.



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