



High performance in high temperatures.

3M™ Tapes for Aerospace Composite and Metal Bonding

Aircraft manufacturers all over the world rely on 3M for the solutions they need to deliver the highest quality component in the least amount of time. No one has a broader selection of high-temperature bonding and masking solutions than 3M, so you always have the right product for the job every time.

- **3M™ Polyester Tapes** are offered with either silicone or rubber adhesives and can withstand the high temperatures of autoclave processes. Available in a range of backing thicknesses to accommodate application needs from fine line masking to splicing to temporary holding and pulling through flash.
- **3M™ Film Tapes** are sturdy tapes with broad temperature compatibility and are ideally suited for applications requiring non-silicone products.
- **Scotch® and 3M™ High Temperature Masking Tapes** offer high performance masking and holding/positioning in high temperature bake cycles.
- **3M™ Specialty Tapes** including Glass Cloth and Double Coated are stronger tapes designed to temporarily bond to a variety of surfaces for stabilizing during layup or resisting pulling through flash or layers.

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Description	Uses
 <p>3M™ Polyester Tape 875/876 Green, made with strong polyester backing and rubber adhesive, allowing it to be used in applications requiring high-temperatures and no silicone. Tape 875 total thickness: 2 mil (0.052mm) Tape 876 total thickness: 3.1 mil (0.078mm)</p>	<p>High temperature non-silicone applications: temporary holding, masking with clean release during autoclave processes (Hold TC wires, vacuum bagging materials and tooling). Also, high temperature paint masking, liquid or powder coating processes.</p>
 <p>3M™ High Temperature Nylon Film Tape 855/8555 White, nylon film tape with a non-silicone rubber adhesive. Tape 855: 3.2 mil (0.081mm) Tape 8555: 6.0 mil (0.15mm)</p>	<p>High temperature non-silicone applications: temporary holding, masking, flash breaker with clean release during autoclave processes (Hold TC wires, masking of molds/tools for clean release). Tape 8555 has thicker backing for increased strength.</p>
 <p>3M™ Polyester Tape 8901/8902/8905 Made with strong polyester backing and silicone adhesive, allowing it to be used in applications requiring high-temperatures or adhesion to silicone treated surfaces. Tape 8901: 2.4 mil (0.061mm) Tape 8902: 3.5 mil (0.080mm) Tape 8905: 6.5 mil (0.16mm)</p>	<p>This tape family offers a range of backing thickness to accommodate application needs from thin tape for splicing to a thicker, stronger tape for pulling through flash or multiple layers.</p>
 <p>3M™ PTFE Film Tape 5498 4.0 mil (0.101mm) brown extruded PTFE film tape with non-silicone, rubber adhesive.</p>	<p>This sturdy tape offers broad temperature compatibility, is ideally suited for environments requiring non-silicone products and has a slick surface backing for mold release on tooling.</p>
 <p>3M™ PTFE Glass Cloth Tape 5451/5453 Brown cloth glass tape impregnated with PTFE (Polytetrafluoroethylene). Tape 5451: 5.6 mil (0.14mm) Tape 5453: 8.2 mil (0.208mm)</p>	<p>Coated with a pressure sensitive silicone adhesive that bonds easily and removes cleanly from tooling equipment. Backing's slick surface provides easy release surface. 3M™ PTFE Glass Cloth Tape 5453 is thicker and stronger for more durable applications.</p>
 <p>3M™ PTFE Glass Cloth Tape 5490/5491 Gray extruded, non-stick, PTFE film tape with a wide temperature range. Tape 5490: 3.7 mil (0.093mm) Tape 5491: 6.7 mil (0.170mm)</p>	<p>This sturdy tape offers broad temperature compatibility for many environments and has a slick surface backing for mold release on tooling. Excellent chemical resistance enables tape to withstand challenging applications.</p>
 <p>Scotch® High Performance Masking Tape 213 Very high-temperature resistant tape for use in masking and holding applications where temperatures reach 350°F (177°C) for 30 minutes. This tape is the most transfer resistant of all Scotch® paper tapes, as the firm adhesive does not anchor itself as softer adhesives often do.</p>	<p>Temporarily holding/positioning bagging materials like breather clothes under the bag.</p>
 <p>3M™ Paint Masking Tape 231/231A Premium high-performance crepe paper masking tape designed to meet masking needs in most industrial painting situations, including the use of bake cycles.</p>	<p>Temporarily holding/positioning bagging materials like breather clothes under the bag.</p>
 <p>3M™ Specialty High Temperature Masking Tape 501+ Premium high performance crepe paper masking tape designed to create super-sharp paint lines in most industrial painting situations, including high-temperature bake cycles of up to 300°F for 30 minutes, and provide clean, one piece removal.</p>	<p>Temporarily holding/positioning bagging materials like breather clothes under the bag.</p>
 <p>3M™ Double Coated Tape 9500PC 5.6 mil (0.142mm) 350°F high performance acrylic adhesive double coat with polyester carrier on a 4.5 mil (0.114mm) 61.5 lb polycoated kraft paper liner.</p>	<p>Temporary holding plys outside the trim line to stabilize during layup.</p>



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To learn more about 3M high-temperature tape solutions for aerospace applications, visit 3M.com/IATD.

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