

DIRECTA

ESSENTIALS FOR INDUSTRY

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8901 Powder Coat Masking Tape

Product Data Sheet

Updated : January 1999
Supersedes : March 1996

Product Description

A high temperature tape with a silicone adhesive for use in composite bagging operations or to remove flashing after bonding.

Physical Properties

Not for specification purposes

Adhesive Type	Silicone	3M ref :
Backing	Polyester	
Thickness (ASTM D-3652) Tape Backing	60 micron 25 micron	
Tape Colour	Blue	
Shelf Life	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50% Relative Humidity	

Performance Characteristics

Not for specification purposes

Adhesion to Stainless Steel ASTM D-3330	3.8 N/10mm	
Tensile Strength ASTM D-3759	43.8 N/10mm	
Elongation at Break ASTM D3759	100%	
Temperature Use Range	204°C	

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Application Techniques	<p>1. Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact & thus improves bond strength.</p> <p>2. To obtain optimum adhesion, the bonding</p>	<p>surfaces must be clean dry and well unified. A typical surface cleaning solvent is isopropyl alcohol & water. Use proper safety precautions for handling solvents.</p> <p>3. Ideal tape application temperature range is 21°C to 38°C (70°F to 100°F).</p>	<p>Initial tape application to surfaces at temperatures below 10°C (50°F) is not recommended because the adhesive becomes too firm to adhere readily. However once properly applied low temperature holding is generally satisfactory.</p>
Additional Product Information	<p>This tape is designed to provide clean removal during masking operations involving high temperatures and pressure.</p>		
Applications	<p>Composite and Metal Bonding - This tape removes cleanly from stainless steel, anodised aluminium and glass after a 5 hour bake cycle at 177°C.</p>	<p>Masking edges of overlap seams in metal bonding process where excess epoxy ("flash") flows on to tape. Clean-up is complete upon tape removal.</p>	<p>Holding parts or vacuum bags during bonding process.</p> <p>Masking parts for powder coat painting.</p>

Features	Advantages	Benefits
Polyester Film	<p>Retains flexibility and thermal resistance.</p> <p>Abrasion, Chemical and thermal resistant.</p>	<p>Helps reduce failures due to cracking.</p> <p>Helps reduce failures due to backing deterioration.</p>
Silicone Adhesive	<p>Higher heat resistance than many other adhesives.</p>	<p>Helps reduce failure due to softening, oozing, adhesive transfer.</p>

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



Specialty Tapes & Adhesives

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