



472 Plastic Film Tape

Product Data Sheet

Updated : March 1996
Supersedes : October 1993

Product Description

A thick black vinyl plastic film with a pigmented rubber blend adhesive. Designed for abrasion protection, outdoor use and is the best overall general purpose vinyl tape.

Physical Properties

Not for specification purposes

Adhesive Type	Pigmented blend of rubbers	
Backing	Vinyl plastic	
Thickness (ASTM D-3652)	250 µm	
Backing Thickness	20 µm	
Tape Colour	Black	
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	2.7 N/10mm	
Tensile Strength ASTM D-3759	52.5 N/10mm	
Elongation at Break ASTM D-3759	250.0 %	
Temperature Range Maximum	110 °C	
Water Vapour Transmission Rate	20g water/m ² /24h	

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Additional Product Information	<p>Thick backing ideal where heavy abrasion is anticipated.</p> <p>Special adhesive gives instant adhesion qualities even below 0°C.</p> <p>Has proven its ability to withstand 3 years exposure to semi-tropic conditions and remove cleanly.</p>	<p>Best all-round general purpose tape.</p> <p>Fairly good resistance to plasticiser migration.</p> <p>Excellent conformability and handling qualities considering its thicker backing.</p>	<p>Begins to soften at 110°C.</p> <p>Poor resistance to ketones, chlorinated hydrocarbons and esters.</p> <p>This adhesive will stain most plastic and painted surfaces.</p>
Application Techniques	<p>Best results are attained when applied to a clean, dry and non dusty surface above 0°C.</p>	<p>To improve adhesion ensure firm and even application pressure is applied.</p>	
Applications	<p>Heavy duty protection under wide variety of conditions.</p> <p>Splicing and patching.</p>	<p>Outdoor applications.</p> <p>Electroplating.</p> <p>Dissimilar metal separation.</p>	<p>Protect metal from corrosion (above and below ground).</p> <p>Sealing barrier films and containers.</p>

FEATURES

Heavy duty plastic backing.

Special rubber adhesive.

ADVANTAGES

Abrasion resistant.

Surprisingly conformable.

Strong.

Chemical and outdoor resistant.

Instant adhesion qualities.

Good plasticiser migration resistance.

BENEFITS

Provides ultimate protection.

Excellent for preservation protection and sealing.

Good for splicing and patching repairs.

Better application life.

Less application effort even at 0°C.

Longer potential application life.

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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.

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