



# 471 Plastic Film Tape

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## Product Data Sheet

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Updated : March 1996  
Supersedes : October 1993

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### Product Description

Vinyl plastic film with a synthetic rubber adhesive designed for coding, abrasion protection, decoration, sealing,

patching, splicing and general purpose applications. Available in transparent and 10 other colours.

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### Physical Properties

Not for specification purposes

<b>Adhesive Type</b>	Synthetic rubber.	
<b>Backing</b>	Pigmented or transparent vinyl plastic.	
<b>Thickness</b> (ASTM D-3652)	130 µm	
<b>Backing Thickness</b>	100 µm	
<b>Tape Colour</b>	Yellow, white, red, black, blue, brown, green, orange, red-orange, purple, transparent.	
<b>Shelf Life</b>	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

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### Performance Characteristics

Not for specification purposes

<b>Adhesion to Stainless Steel</b> ASTM D-3330	2.7 N/10mm	
<b>Tensile Strength</b> ASTM D-3759	26.3 N/10mm	
<b>Elongation at Break</b> ASTM D-3759	150.0 %	
<b>Temperature Range Maximum</b>	75 °C	
<b>Water Vapour Transmission Rate</b>	31g water/m <sup>2</sup> /24h	

Date : March 1996  
471 Plastic Film Tape

<b>Additional Product Information</b>	<p>Pigmented backings maintain their vivid colours even when exposed to heavy abrasion.</p> <p>Conformability and dead stretch properties are ideal for taping or sealing curved or irregular surfaces.</p>	<p>While No. 471 resists most common solvents, care should be taken to avoid ketones, chlorinated hydrocarbons and esters. These are found in lacquer, thinners, degreasers, paint strippers etc.</p>	<p>No. 471 is one of the best tapes to resist plasticiser migration on plastic surfaces, especially vinyls or others containing migrating type plasticisers. Refer any questions to Technical Service.</p>
<b>Application Techniques</b>	<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>	
<b>Applications</b>	<p>Floor marking and identification.</p> <p>Sealing.</p>	<p>Colour coding and identification.</p> <p>Decoration.</p>	<p>Memory core taping.</p> <p>Masking.</p>
	<b>FEATURES</b>	<b>ADVANTAGES</b>	<b>BENEFITS</b>
	<p>0.1mm pigmented vinyl backing.</p>	<p>Longer life than many competitive products which are merely surface printed.</p>	<p>Longer periods between rework.</p>
		<p>Readily conformable to irregular surfaces.</p>	<p>More effective seal.</p>
		<p>Abrasion resistant.</p>	<p>Longer potential application life.</p>
		<p>Dead stretch properties.</p>	<p>Provides straighter line for masking, marking and sealing applications.</p>
	<p>Sharp contrasting colours.</p>	<p>Readily used for colour coding or marking systems.</p>	<p>Promotes plant safety quality control and fewer mistakes.</p>
	<p>Translucent synthetic rubber adhesive.</p>	<p>Chemical resistant; bond to concrete increases in time.</p>	<p>Excellent for marking and sealing when chemical protection is required.</p>

Date : March 1996  
471 Plastic Film Tape

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**Specifications**

Meets PPP-T-66E,  
Amendment 1, Type 1,  
Class A (Trans) ,Class B  
(Coloured).

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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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