



8562 Indoor Grade Polyurethane Protective Tape

Product Data Sheet

Updated : March 1996
Supersedes : November 1995

Product Description

8562 is made of exceptionally tough, abrasion resistant polyurethane designed primarily for indoor industrial type applications.

8562 is pre-coated with acrylic adhesive for long term applications.

Physical Properties

Not for specification purposes

Adhesive Type	Acrylic	3M ref :
Liner	Paper	
Thickness (ASTM D-3652) Overall	0.20 mm	
Tape Colour	Glossy Transparent	
Tolerance	±0.025 mm	
Density	1090 kg/m ³	
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 ASTM-D1000 24-hour dwell at room temp; 180° peel at 12"/minute	Glass 5.5 N/10mm	Aluminium 6.1 N/10mm
	Acrylic Enamel 4.2 N/10mm	ABS Plastic 5.0 N/10mm

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**Performance
 Characteristics Cont...**
 Not for specification purposes

Tensile Strength ASTM-D882 2" jaw separation and 6in/mm crosshead rate	700 N/100mm											
Elongation at Break ASTM-D882 2" jaw separation and 6in/mm crosshead rate	400 %											
Tear Strength ASTM-1938	1.4 kg											
Taber Abrasion ASTM-C501 H18, 1 Kg 1000 cycle	Wt, loss 0.10 g.											
Hardness Shore A ASTM-D2240	85											
Dielectric Strength ASTM-D1000	9,000 Volts											
Solvent Resistance	<p>There is little or no effect after 24 hours immersion in the following solvents when applied to bonderised steel unless otherwise stated (* Slight edge lifting)</p> <table> <tr> <td>Auto Oil</td> <td>Distilled Water</td> </tr> <tr> <td>Regular Gasoline*</td> <td>Unleaded Gasoline*</td> </tr> <tr> <td>Diesel Fuel*</td> <td>JP-4 Jet Fuel*</td> </tr> <tr> <td>JP-5 Jet Fuel*</td> <td>Mil 5606-D Hydraulic Fluid</td> </tr> <tr> <td>Unleaded Gas with w/10% ethanol*</td> <td></td> </tr> </table>		Auto Oil	Distilled Water	Regular Gasoline*	Unleaded Gasoline*	Diesel Fuel*	JP-4 Jet Fuel*	JP-5 Jet Fuel*	Mil 5606-D Hydraulic Fluid	Unleaded Gas with w/10% ethanol*	
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**Environmental
 Exposure**
 Not for specification purposes

Low Temperature Flexibility ¼" Mandrel bend	No cracking after 24 hours at -60°F (-51°C)	
Maximum Service Temperature	Film softens above this limit. 300°F 149°C	
Dimensional Stability % shrinkage after 30 minutes at 250°F (120°C)	1.0 or less	
Florida 12 months @ 5° South exposure	Discoloration and loss of surface gloss.	
Arizona 12 months @ 45° South exposure	Discoloration and loss of surface gloss.	

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Application Techniques

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.

2. To obtain optimum adhesion, the bonding

surfaces must be clean dry and well unified. A typical surface cleaning solvent is isopropyl alcohol & water. Use proper safety precautions for handling solvents.

3. Ideal tape application temperature range is 21°C to 38°C (70°F to 100°F).

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.

Applications

This tape is used in military, commercial, business and private aviation as lead edge" protection against particle and rain erosion.

8562 can easily be die-cut to exacting shapes and is paintable, printable and thermoformable. Care should be taken when handling die-cut shapes to prevent them from sticking together ("face to face").

It is recommended that they be stacked with liner side to film side of adjacent pieces.

Additional Product Information

Polyurethane Protective Tapes are a fast and exact way to provide exceptionally tough surface protection on metals, woods and plastics.

They are made from a highly durable thermoplastic elastomer and pre-coated with either a natural rubber or high performance acrylic adhesive.

They conform well to curvatures, can be pre-cut into convenient shapes and can even be painted or printed over without priming.

3M is a trademark of the 3M Company.

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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