December, 2007

3M™ Scotch® Fine Line Tape 218

Product Description

Scotch® Fine Line Tape 218 is a high-performance film backed tape with low profile and high adhesion to achieve excellent paint lines and for other masking and holding applications.

Product Features

- Will give an excellent color line separation due to its thinness.
- The specially processed film backing stretches easily for smooth curves, yet can be easily torn by hand with a quick tearing action.
- Specially processed film backing will allow taping over fresh paint jobs sooner than paper tapes with less chance of imprint damage.
- Has excellent moisture and solvent resistance.
- Not considered a high temperature tape but could be used on bake cycles up to 250°F (121°C) for up to 30 minutes.
- Should not be subjected to outdoor exposure or prolonged periods of sunlight as tape may become difficult to remove.
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Technical Information Note
The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Green, matte finish</td>
<td></td>
</tr>
<tr>
<td>Total Tape Thickness</td>
<td>0.13 mm</td>
<td>5 mil</td>
</tr>
<tr>
<td>Backing</td>
<td>Polypropylene plastic film</td>
<td></td>
</tr>
<tr>
<td>Adhesive</td>
<td>Rubber adhesive with an ideal balance of properties for masking use</td>
<td></td>
</tr>
</tbody>
</table>

Typical Performance Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
<th>Substrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peel Adhesion</td>
<td>4 N/cm</td>
<td>ASTM D3330</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>22.8 N/cm</td>
<td>ASTM D3759</td>
<td></td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>720 %</td>
<td>ASTM D3759</td>
<td></td>
</tr>
<tr>
<td>Temperature Use Range</td>
<td>30 minutes up to 121 °C</td>
<td>30 minutes up to 250 °F</td>
<td></td>
</tr>
</tbody>
</table>
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Available Sizes

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Roll Length</td>
<td>54.9 m</td>
</tr>
<tr>
<td></td>
<td>60 yd</td>
</tr>
</tbody>
</table>

Handling/Application Information

Application Ideas

- Fine Line paint masking
- Can sealing
- Circuit board conformal coat masking
- Solvent resistant masking
- Electroplating stop off masking, non-critical
- Silk screen masking
- Circuit board splash mask protection
- Lettering
- Moisture resistant masking
- Labeling (surface writable)

Storage and Shelf Life

Store under normal conditions of 70°F (21°C) and 50% R.H. in the original carton.
To obtain best performance, use this product within 12 months from date of manufacture.

Trademarks

Scotch is a registered trademark of 3M.

References

1. 3m.com Product Page
   N=5002385+3293241622&rt=rud
2. Safety Data Sheet
   Url: https://www.3m.com/3M/en_US/company-us/SDS-search/results/?
   gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=218
ISO Statement
This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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