



# 3M™ Polyester Label Material 92200

## Product Data Sheet

May 2011  
Supersedes : May 2009

### Product Description

3M Polyester Label Material 92200 is a gloss white printable polyester label stock designed for application onto textured, grained and structured low surface energy plastics such as Polypropylene (PP), low density Polyethylene (LDPE), mineral filled and fibre reinforced PP and Polyamide (PA) composites.

### Product Descriptor / Dispatch Labelling

92200 TT2 GW PET50-SE100/65-65DWG

### Physical Properties

Not for specification purposes  
(Calipers are nominal values)

|                  |  |
|------------------|--|
| <b>Facestock</b> | 50 micron gloss white polyester                                      |
| <b>Adhesive</b>  | 65 g/m <sup>2</sup> SE100 adhesive                                   |
| <b>Liner</b>     | 56 micron, 62 g/m <sup>2</sup> white densified double-sided glassine |

### Key Features

- 3M™ Adhesive SE100 gives high adhesion to very low surface energy materials
- 65 g/m<sup>2</sup> adhesive coatweight for excellent adhesion to rough and textured surfaces.
- Facestock is topcoated for thermal transfer printing. Resin ribbons are recommended for optimum durability. The top coat also provides improved ink anchorage for traditional forms of press printing.
- Polyester facestock provides durability in harsh environments.
- Densified double-side glassine liner assures consistent die cutting. The double-side liner improves ease of dispensing and reduces issues related to oozing.
- UL and cUL Recognized (File MH18072)

### Application Ideas

- Labeling of reinforced plastics and structured composites for automotive and industrial applications
- Labels to be used on difficult to adhere to surfaces
- Barcode labels and rating plates
- Warning, instruction and service labels for durable goods

**Performance Characteristics**  
Not for specification purposes

Standard Test Conditions are 23°C and 50% Relative Humidity  
90° Peel Adhesion tested using FINAT Test Procedure FTM 2 (300mm/min)

**Adhesion to various Substrates** (72 hours at standard conditions)

| Substrate                | Mineral Filler | Surface Structure | 90° Peel N/25mm |
|--------------------------|----------------|-------------------|-----------------|
| Stainless Steel          |                | Smooth            | 37.8            |
| <b>Polyamide</b>         |                |                   |                 |
| PA 6                     | None           | Smooth            | 38.5            |
| PA 6                     | MR30           | Smooth            | 31.5            |
| PA 6                     | MR30           | Rz 50 µm          | 12.2            |
| PA 6                     | MR30           | Rz 300 µm         | 9.5             |
| <b>Polypropylene</b>     |                |                   |                 |
| PP                       | None           | Smooth            | 35.7            |
| HCPP                     | None           | Smooth            | 38.5            |
| PP                       | MR20           | Smooth            | 37.2            |
| PP                       | MR20           | Rz 50 µm          | 13.0            |
| PP                       | MR20           | Rz 300 µm         | 9.5             |
| PP                       | TV20           | Smooth            | 31.5            |
| PP                       | TV20           | Rz 40 µm          | 24.0            |
| <b>Other Polyolefins</b> |                |                   |                 |
| POM                      | None           | Smooth            | 34.5            |
| PP-EPDM                  | TD10           | Smooth            | 40.0            |
| LDPE                     | None           | Smooth            | 40.5            |

**Adhesion 72 Hours at 70°C**

| Substrate       | 90° Peel N/25mm |
|-----------------|-----------------|
| Stainless Steel | 37.0            |
| ABS             | 22.8            |
| Polypropylene   | 33.1            |

Liner Release tested using FINAT Test Procedures  
FTM 3 (180° removal of liner from face material at 300mm/min)  
FTM 4 (180° removal of liner from face material at 10m/min)

| Liner Release | Rate of Removal | Release Force | Units   |
|---------------|-----------------|---------------|---------|
| FTM 3         | 300 mm per min  | 24.3          | cN/50mm |
| FTM 4         | 10 m per min    | 9.0           | cN/25mm |

Temperature resistance of label applied to stainless steel.  
Other substrates should be tested as per application

|  |              |
|--|--------------|
| <b>Service Temperature</b>             | -40 to 105°C |
| <b>Minimum Application Temperature</b> | +15°C        |

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|                                   |   |
|-----------------------------------|---|
| <b>Processing</b>                 | <p><b>Printing:</b><br/>Facestock is topcoated for improved ink receptivity and is designed for thermal transfer printing. It is printable by standard roll processing methods including flexography, hot stamp, letterpress, and screen printing. The compatibility of ink systems and printing methods should be verified by testing in the actual process.</p> <p><b>Die Cutting:</b><br/>Rotary die cutting is recommended. Fanfolding of labels is not recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing. Flat bed die cutting is not recommended and must be evaluated before use.</p> <p><b>Packaging:</b><br/>Finished labels should be stored in plastic bags.</p>  |
| <b>Special Considerations</b>     | <p>For maximum bond strength, the surface should be clean and dry. Isopropyl alcohol is a typical cleaning solvent.</p> <p><b>NOTE:</b> When using solvents, read and follow the manufacturer's precautions and directions for use.</p> <p>For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds can be achieved through increased rubdown pressure. For application of 3M Polyester Label Material 92200 it is necessary to use uniform increased pressure in order to obtain good adhesion on structured surfaces. The use of a felt blade or roller increases the contact of the adhesive with the substrate.</p>                  |
| <b>Storage</b>                    | <p>Store at standard room temperature conditions of 21°C and 50% relative humidity.</p>   |
| <b>Shelf Life</b>                 | <p>24 months from date of dispatch by 3M when stored in the original packaging at 21°C &amp; 50 % relative humidity</p>   |
| <b>For Additional Information</b> | <p>To request additional product information or to arrange for sales assistance, call.....<br/>Address correspondence to: 3M</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.

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